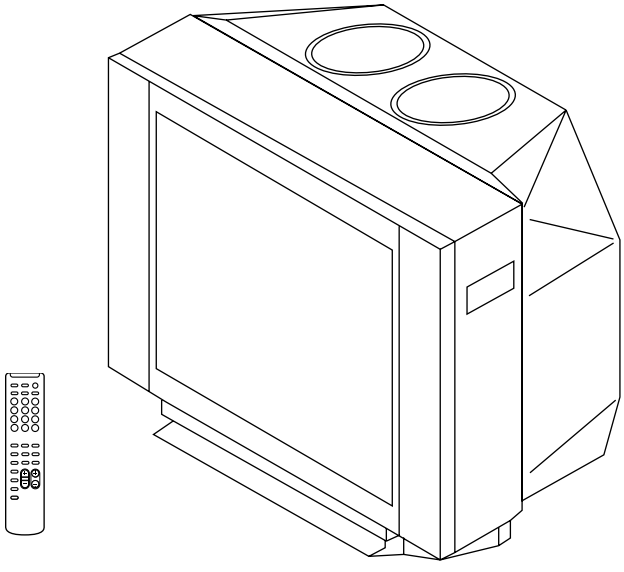
Self Diagnosis Supported model

SERVICE MANUAL

BG-3S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-XF29N90	RM-914	Taiwan	SCC-P13A-A
KV-XF29N93	RM-914	Taiwan	SCC-P13B-A
KV-XF29N93	RM-914	Philippines	SCC-U27B-A

MODEL	COMMANDER	DEST.	CHASSIS NO.



MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

		Note
Power requirements	110 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	AV IN only
Stereo system	MTS	
Channel coverage	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84	
Antenna	75-ohm external terminal	
Audio output	8W + 8W	KV-XF29N90
	6W + 6W	KV-XF29N93
3D WOOFER	15W	KV-XF29N93 only
Number of terminal		
Video	Input: 3 Output: 1	Phono jacks; 1 V_{P-P}, 75 ohms
Audio	Input: 3 Output: 1	Phono jacks; 500 mVrms
S Video	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms
Headphone	Output: 1	Minijack
Picture tube	29 inch	
Tube size (cm)	72.4	Measured diagonally
Screen size (cm)	67.9	Measured diagonally
Dimension (w/h/d, mm)	794 × 573 × 517	KV-XF29N90
	794 × 589 × 517	KV-XF29N93
Mass (kg)	50	KV-XF29N90
	54	KV-XF29N93

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

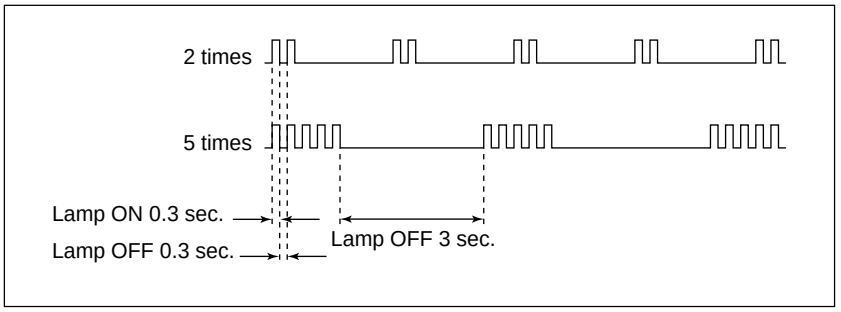
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

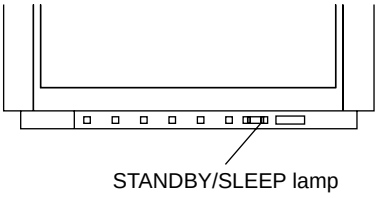
Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F4601 (F)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	• H.OUT Q511 is shorted. (A board) • IC701 is shorted. (C board) • -13V is not supplied. (A board) • IC 503 faulty (A board)	• Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC701 is faulty. (C board) • IC301 is faulty. (A board) • No connection A board to C board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.
The symptom that is diagnosed first by the microcontroller is displayed on the screen.
Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT





Diagnostic Item	Flash Count*
+B overcurrent/overvoltage Vertical deflection stopped	2 times
White balance failure	5 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

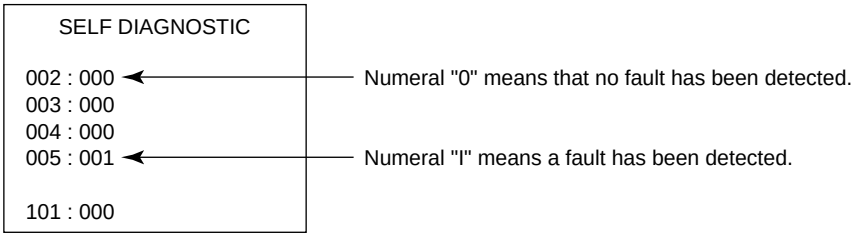
4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel 5 ➡ Sound volume - ➡ Power ON
⇧
Note that this differs from entering the service mode (mode volume +).

Self-Diagnosis screen display


SELF DIAGNOSTIC
002 : 000
003 : 000
004 : 000
005 : 001
101 : 000
Numeral "0" means that no fault has been detected.
Numeral "I" means a fault has been detected.

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

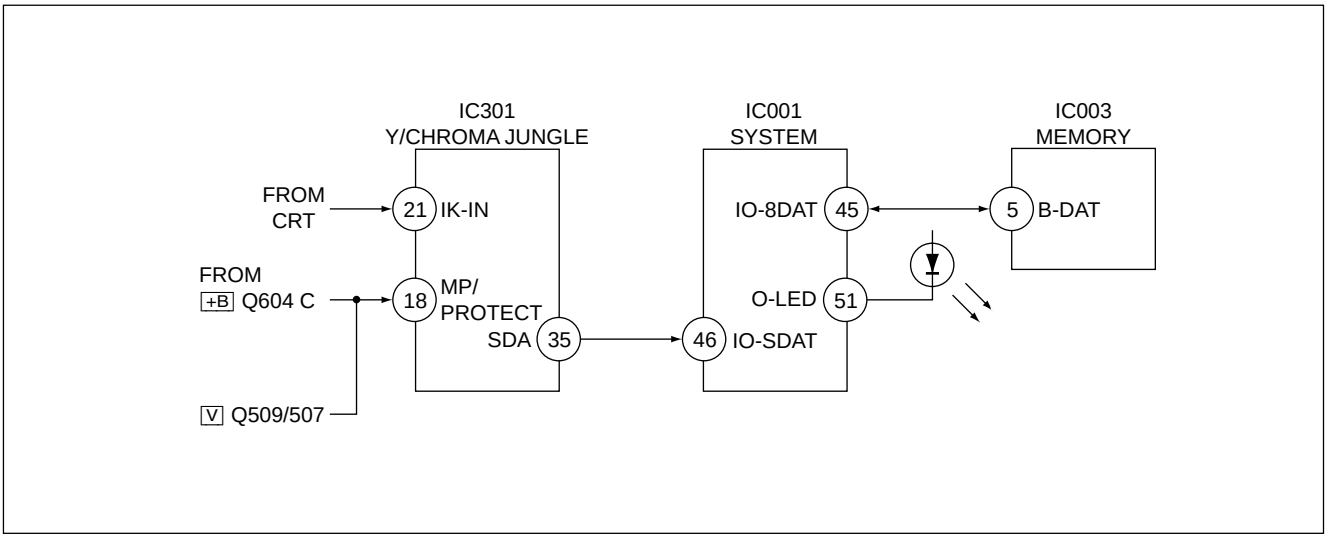
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel 8 ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



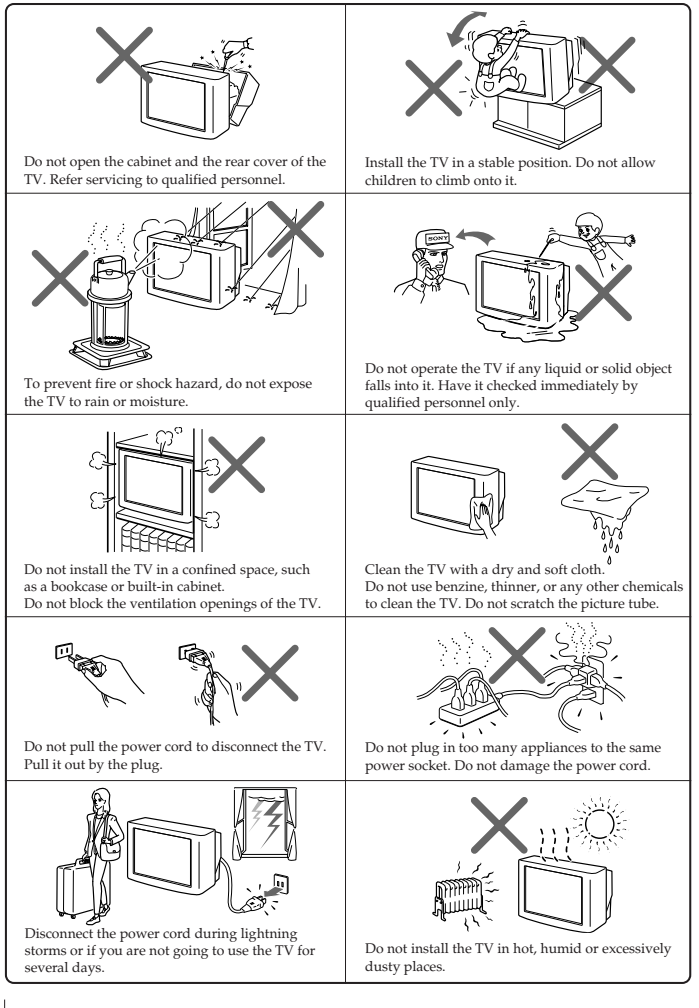
+B overcurrent (OCP)	Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.
Vertical deflection stopped	Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.
Vertical deflection overcurrent	Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.
White balance failure	If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture. * (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 V AC.



Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.

Install the TV in a stable position. Do not allow children to climb onto it.

To prevent fire or shock hazard, do not expose the TV to rain or moisture.

Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.

Do not install the TV in a confined space, such as a bookcase or built-in cabinet.
Do not block the ventilation openings of the TV.

Clean the TV with a dry and soft cloth.
Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.

Do not pull the power cord to disconnect the TV. Pull it out by the plug.

Do not plug in too many appliances to the same power socket. Do not damage the power cord.

Disconnect the power cord during lightning storms or if you are not going to use the TV for several days.

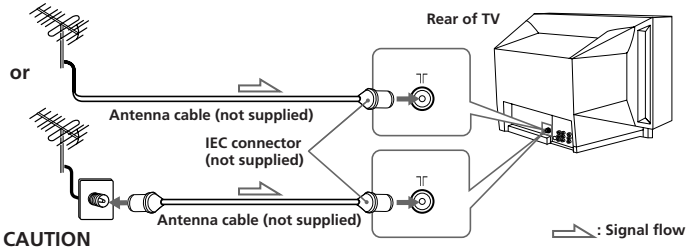
Do not install the TV in hot, humid or excessively dusty places.

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.

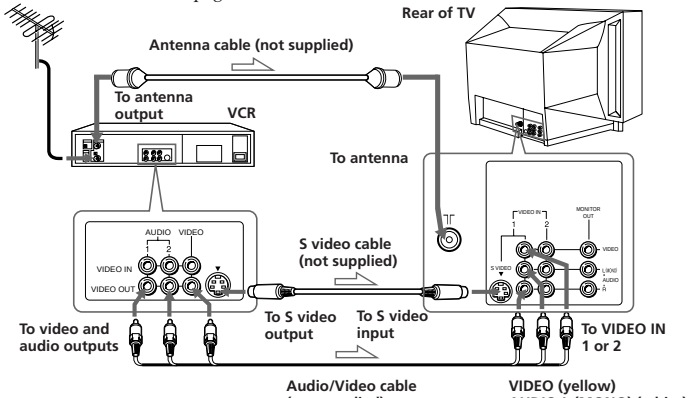


CAUTION

Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Connecting a VCR

To watch the video, see page 11.



Tip

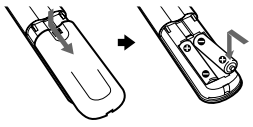
- With the "VIDEO MULTI SYSTEM" input terminal, you can also receive PAL, NTSC and SECAM video signals when using the VIDEO IN 1 or 2 jacks, or the VIDEO 3 INPUT jacks at the front of your TV.

Notes

- If you connect a monaural VCR, connect the yellow plug to VIDEO (the yellow jack) and the black plug to AUDIO-L (MONO) (the white jack).
- If you connect a VCR to the antenna terminal, preset the signal output from the VCR to the program number 0 on the TV.
- If both S VIDEO input and VIDEO IN 1 input at the rear of your TV are used at the same time, the S VIDEO input is automatically selected. To view VIDEO IN 1 input, disconnect the S video cable.
- When no signal is input to the connected video equipment, the TV screen becomes blue.

Step 2

Insert the batteries into the remote

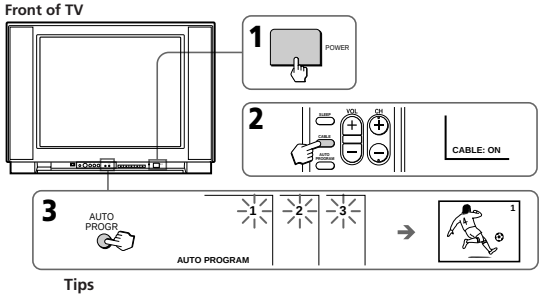


Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically

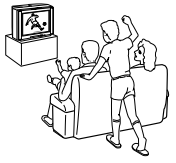


Tips

- If you want to stop the automatic channel presetting, press MENU twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 9).
- The AUTO PROGRAM button on the remote works as the AUTO PROGRAM button on the TV.

Now You Are Ready. . .

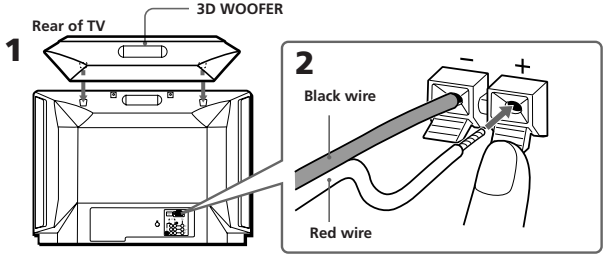
To watch your TV, see page 10.



Connecting the 3D WOOFER

(KV-XF29N93 only)

You can enjoy high quality sound by connecting the 3D WOOFER.



1 Attach the 3D WOOFER into the footholds on the top of your TV.

2 Connect the wires to the 3D WOOFER (8Ω) terminals at the rear of your TV. The red wire should be connected to the ⊕ red terminal and the black wire to the ⊖ black terminal.

Notes

- Connect only the supplied 3D WOOFER; otherwise your TV may malfunction.
- Unplug your TV from the wall outlet when connecting the 3D WOOFER.
- To prevent a malfunction caused by a short circuit of the terminals, make sure that none of the 3D WOOFER wire strands stick out, making contact with the neighbouring speaker terminal.

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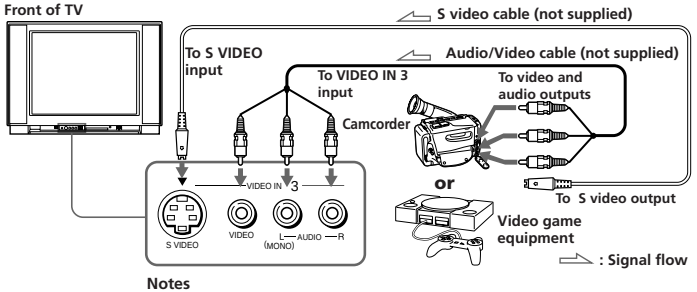
Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the picture of the connected equipment, see page 11.

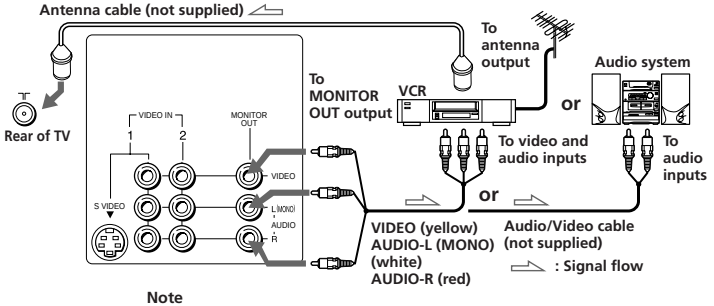
Connecting a camcorder/video game equipment using the VIDEO IN input jacks



Notes

- With the "VIDEO MULTI SYSTEM" input terminal, you can also receive PAL, NTSC and SECAM video signals when using the VIDEO IN 1 or 2 jacks at the rear of your TV, or the VIDEO 3 INPUT jacks.
- If both S VIDEO input and VIDEO IN 3 input at the front of your TV are used at the same time, the S VIDEO input is automatically selected. To view VIDEO IN 3 input, disconnect the S video cable.

Connecting audio/video equipment using the MONITOR OUT output jacks



Note

- When connecting a monaural VCR, connect the yellow plug to VIDEO (the yellow jack) and the black plug to AUDIO-L (MONO) (the white jack).

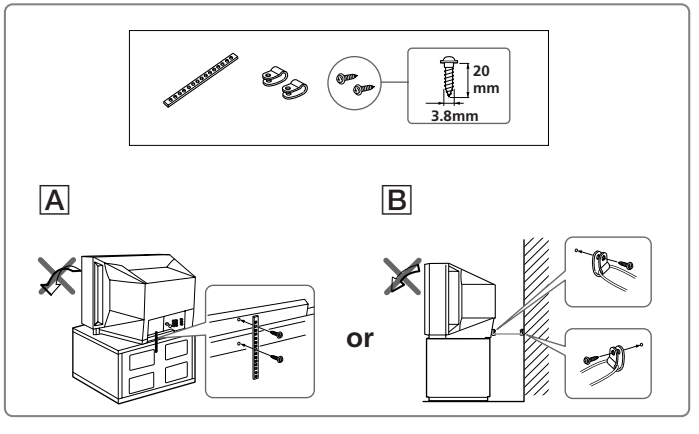
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

A With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

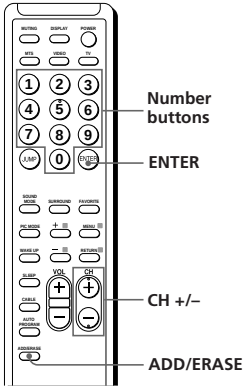
B Put the cord or chain through the clamps to secure the TV against a wall or pillar.



Note

- Use only the supplied screws. Use of other screws may damage the TV.

Presetting the channels manually

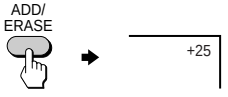


To receive a new channel or a channel with a weak signal, preset the channel manually.

1 Press number buttons to select the desired channel, then press ENTER.

2 Press ADD/ERASE.

"+" appears beside the channel number, indicating that presetting is complete.



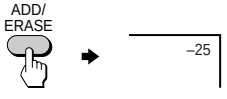
Disabling channels

By disabling unused or unwanted channels, you can skip those channels when you press CH +/–.

1 Press CH +/– until the unused or unwanted channel appears on the screen.

2 Press ADD/ERASE.

"–" appears beside the channel number, indicating that disabling is complete.

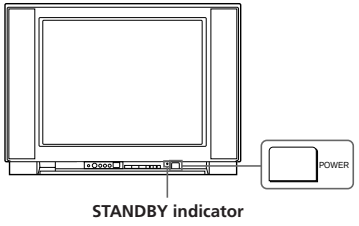


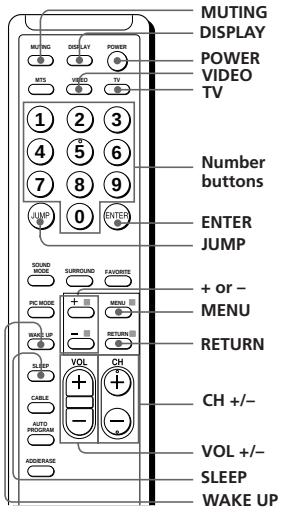
To cancel the skip setting

Preset the channel automatically again.

Watching the TV

This section explains functions used while watching TV. Most operations can be done using the remote.

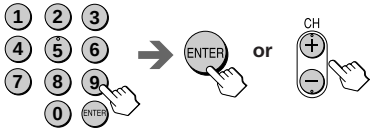




1 Press POWER on the TV to turn on the TV.

When the TV is in the standby mode (the standby indicator on the TV is lit red), press POWER on the remote or CH +/– on the TV.

2 To select the TV program, press the number buttons and then press ENTER, or press CH +/–.



3 Press VOL +/– to adjust the volume.

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Additional tasks

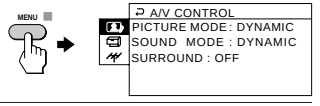
To	Do this
Turn off temporarily	Press POWER on the remote. The STANDBY indicator on the TV lights up red.
Turn off completely	Press POWER on the TV.
Mute the sound	Press MUTING.
Watch the video input (VCR, camcorder, etc.)	Press VIDEO to select "VIDEO 1", "VIDEO 2" and "VIDEO 3". To return to the TV program, press TV.
Change the color system setting (for the VIDEO INPUT jack only)	Display the SET UP menu and select "COL SYS" to select the appropriate color system until the color is optimal, then press RETURN. AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press DISPLAY.

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

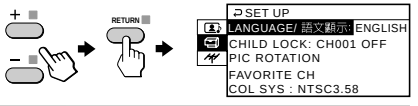
Changing the menu language

You can change the menu language as well as the on-screen language.
For details on how to use the menu, see "How to use the menu" on page 18.

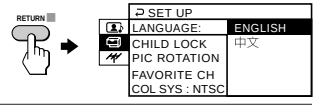
1 Press MENU.



2 Press + or – to select the SET UP icon (), then press RETURN.

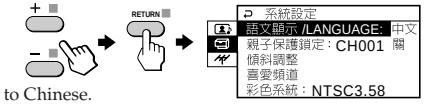


3 Make sure LANGUAGE/ 語文顯示 is selected, then press RETURN.



continued

4 Press + or – to select 中文, then press RETURN.



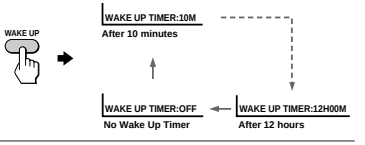
The menu language changes to Chinese.

To return to the normal screen

Press MENU.

Setting the Wake Up timer

1 Press WAKE UP until the desired period of time appears.



2 Select the TV program or video mode you want to display when you wake up.

3 Press POWER on the remote or set the Sleep timer if you want the TV to turn off automatically.

The WAKE UP indicator on the TV lights up orange.

To cancel the Wake Up timer

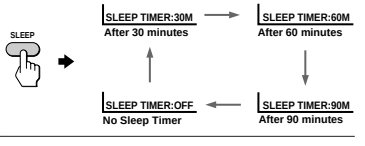
Press WAKE UP until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

Notes

- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press SLEEP until the desired period of time appears.

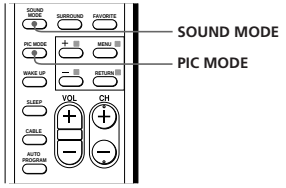


To cancel the Sleep timer

Press SLEEP until "SLEEP TIMER: OFF" appears or turn the TV off.

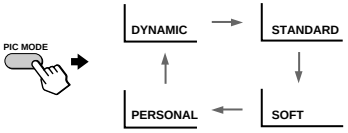
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in PERSONAL option.



Selecting the picture mode

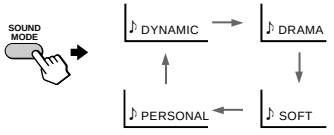
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.
PERSONAL	receive the last adjusted picture setting from the ADJUST option in the A/V CONTROL menu (see page 20).

Selecting the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



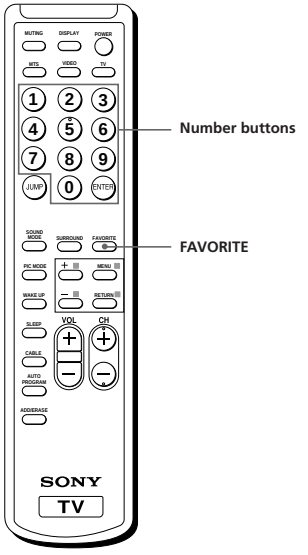
Select	To
DYNAMIC	listen to dynamic and clear sound that emphasizes the low and high tones.
DRAMA	listen to sound that emphasizes voice and high tones.
SOFT	receive soft sound.
PERSONAL	receive the last adjusted sound setting from the ADJUST option in the A/V CONTROL menu (see page 20).

Tip

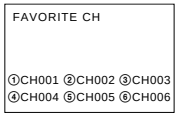
- You can also set the picture and sound modes using the menu (see "Changing the A/V CONTROL setting" on page 19)

Viewing your favorite channels

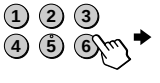
You can display and select six of your favorite channels directly from your TV screen.



1 Press FAVORITE.



2 Press the number button from 1 to 6 to select the desired channel.



Tip

- To program your favorite channels, see "Programming your favorite channels" on page 21.

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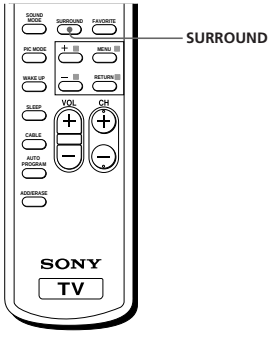
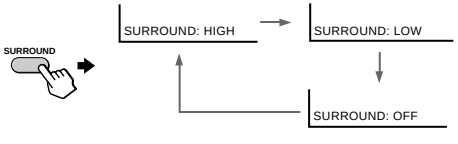
Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



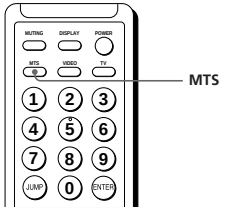
Select	To
HIGH	listen to sound that spreads out over a large area, giving the feeling of being at a concert hall.
LOW	listen to the sound that gives the feeling of being at a live concert.
OFF	turn off the surround sound.

The surround of your TV is categorized as TruSurround.

TruSurround™ is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents.

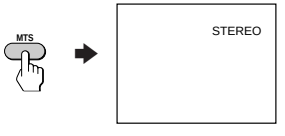
Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of MTS stereo system.



Press MTS repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound and the stereo indicator on the TV lights up red.



When receiving a program, on-screen display changes as follows:

Broadcasting	On-screen display (Selected sound)
MTS stereo	STEREO → SAP → MONO

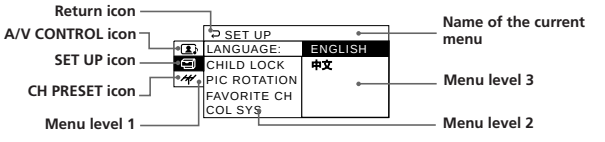
Select	To
STEREO	Listen to stereo broadcast sound.
SAP	Listen to SAP broadcast sound.
MONO	Listen to monaural sound.

Notes

- When select SAP, non-SAP program sound will be same as STEREO mode sound.
- If the stereo signal is very weak, the STEREO broadcast sound may become noisy. To reduce the noise, select "MONO".

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. Here's an overview of the menu system.

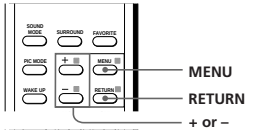


Level 1	Level 2	Level 3/Function
A/V CONTROL	PICTURE MODE	Select the picture mode. DYNAMIC → STANDARD → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. PICTURE→COLOR→BRIGHT→HUE→SHARP
	SOUND MODE	Select the sound mode. DYNAMIC → DRAMA → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. BASS→TREBLE→BALANCE→BBE *
	SURROUND	Select the surround mode. HIGH→ LOW→OFF
SET UP	LANGUAGE/語文顯示	Change the menu language. ENGLISH - 中文 (Chinese)
	CHILD LOCK	Lock the channel independently.
	PIC ROTATION	Adjust the picture position.
	FAVORITE CH	Program favorite channels.
CH PRESET	AUTO PROGRAM	Preset channels automatically.
	CABLE	Select " ON" if you want to watch cable TV.

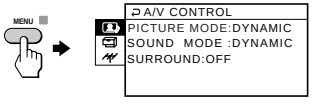
* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

How to use the menu

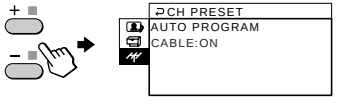
You can use the buttons on the remote and on the TV as well to display the menu and adjust the settings.



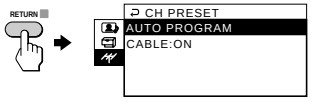
1 Press MENU to display the menu.



2 Press + or – to select the desired item.



3 Press RETURN to confirm your option and go to the next menu level.



Other menu operations

To	Press
Adjust the setting value	+/–
Return to the previous menu level*	RETURN
Cancel the menu	MENU

* To return from Menu Level 2 to Level 1, press + or – to select the return icon (⮌), then press RETURN.

Tips

- If more than 60 seconds elapse between entries, the menu screen disappears.
- You can also use the buttons on the TV for menu operations. VOL +/– work as + /– on the remote and TV/VIDEO works as RETURN on the remote.

Front of TV

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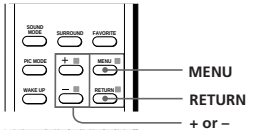
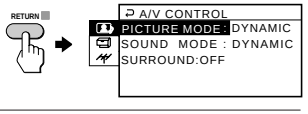
Changing the A/V CONTROL setting

The A/V CONTROL menu allows you to change the picture and sound settings.

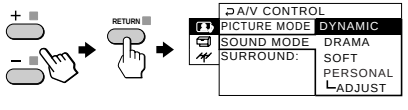


1 Press MENU.

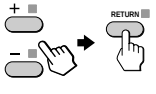
2 Make sure the A/V CONTROL icon ( ) is selected, then press RETURN.



3 Press + or – to select either PICTURE MODE, SOUND MODE or SURROUND, then press RETURN.



4 Press + or – to select the desired option, then press RETURN.



For	Select
PICTURE MODE	either DYNAMIC, STANDARD, SOFT, PERSONAL*, or ADJUST.
SOUND MODE	either DYNAMIC, DRAMA, SOFT, PERSONAL*, or ADJUST.
SURROUND	either HIGH, LOW, or OFF.

* When the PERSONAL mode is selected, the last adjusted picture and sound settings from the ADJUST option are received (see next page).

Tip

- For details on the options under "PICTURE MODE", "SOUND MODE" and "SURROUND", see page 20 and 15 respectively.

To return to the normal screen

Press MENU.

continued

Changing the A/V CONTROL setting (continued)

Adjusting the ADJUST options under PICTURE MODE

1 Press + or – to select the desired item (e.g., COLOR), then press RETURN.

2 Adjust the value according to the following table, then press RETURN.

For	Press – to	Press + to
PICTURE	decrease picture contrast	increase picture contrast
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
HUE *	increase red picture tones	increase green picture tones
SHARP	soften the picture	sharpen the picture

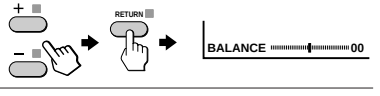
* You can adjust HUE for the NTSC color system only.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select PERSONAL.

Adjusting the ADJUST options under SOUND MODE

1 Press + or – to select the desired item (e.g., BALANCE), then press RETURN.



2 Adjust the value according to the following table, then press RETURN.

For	Press – to	Press + to
BASS	decrease the bass	increase the bass
TREBLE	decrease the treble	increase the treble
BALANCE	increase the left speaker's volume	increase the right speaker's volume
BBE	select "HIGH" for higher enhancement of sound clarity; select "LOW" for lower enhancement of sound clarity; select "OFF" to turn off the BBE sound	

3 Repeat the above steps to adjust other items.

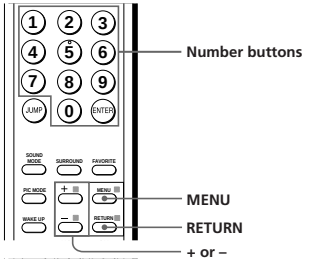
The adjusted settings will be received when you select PERSONAL.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 17 and "How to use the menu" on page 18.

Changing the SET UP setting

The SET UP menu allows you to change the menu language, lock channels, adjust the picture position, program your favorite channels and adjust volume automatically.

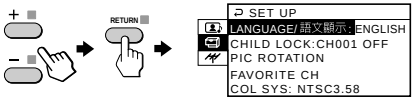


Programming your favorite channels

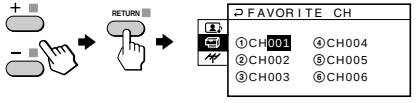
The FAVORITE CH feature enables you to program up to six channels for direct selection.

1 Press MENU.

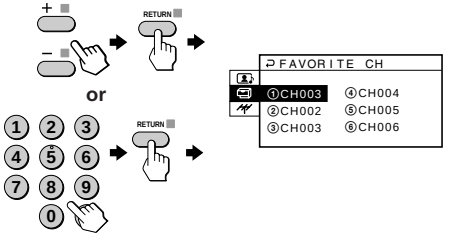
2 Press + or – to select the SET UP icon (), then press RETURN.



3 Press + or – to select FAVORITE CH, then press RETURN twice.



4 Press + or –, or number buttons to program the desired channel (e.g., CH003), then press RETURN.



5 To continue programming other favorite channels, press + or – and then press RETURN. After that, repeat step 4.

To return to the normal screen

Press MENU.

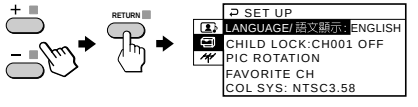
continued

Using the CHILD LOCK feature

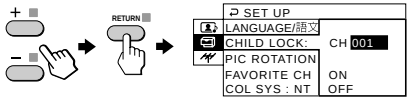
You can prevent your children from watching certain programs by using the CHILD LOCK feature.

1 Press MENU.

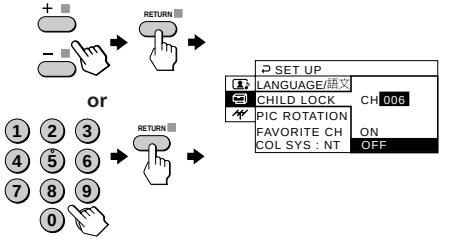
2 Press + or – to select the SET UP icon (), then press RETURN.



3 Press + or – to select CHILD LOCK, then press RETURN.



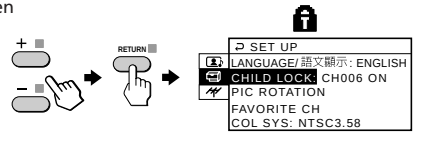
4 Press + or –, or number buttons to select the desired channel, then press RETURN.



5 Press + or – to select ON, then press RETURN.

The lock symbol ( ) appears on the screen.

To unlock the channel, select OFF.



6 To continue locking other channels, press RETURN and then repeat step 4 to 5.

To return to the normal screen

Press MENU.

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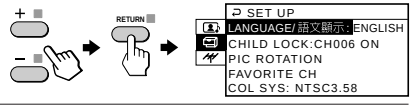
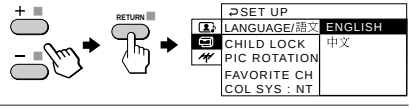
Changing other SET UP menu options

1 Press MENU.

2 Press + or – to select the SET UP icon (), then press RETURN.



3 Press + or – to select the desired option, then press RETURN.



Select	To
LANGUAGE	Change the menu language (see "Changing the menu language" on page 11).
CHILD LOCK	Prevent children from watching certain programs (see "Using the CHILD LOCK feature" on page 22).
PIC ROTATION	Adjust the picture position when it is not aligned to the TV screen. Press + or – to adjust the picture position, then press RETURN.
FAVORITE CH	Program channels for direct selection (see "Programming your favorite channels" on page 21).

To return to the normal screen

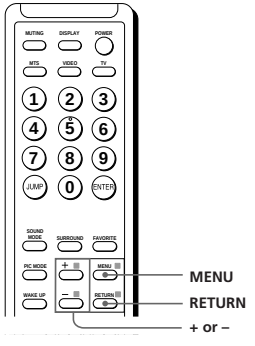
Press MENU.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 17 and "How to use the menu" on page 18.

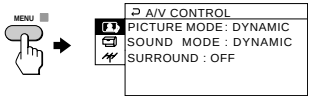
Changing the Channel Preset (CH PRESET) setting

The CH PRESET menu allows you to adjust the setup of your TV to receive either CABLE TV or VHF or UHF broadcast.

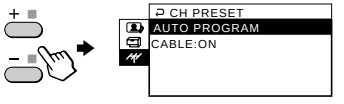


Using CABLE ON or OFF feature

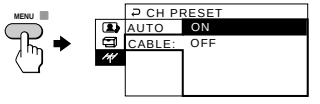
1 Press MENU to display the menu.



2 Press + or – to select CH PRESET, then press RETURN.



3 Press + or – to select CABLE, then press RETURN.



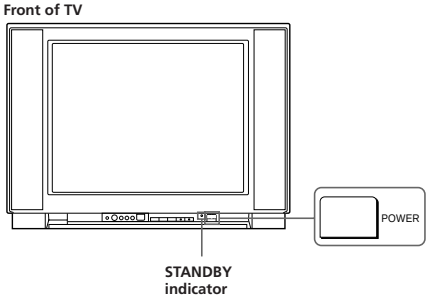
4 Press + or – to select ON or OFF, then press RETURN.

(1) If you select "CABLE : ON", you will receive cable TV program. If there is no cable TV programs, you will receive VHF or UHF broadcast channel.

(2) If you select "CABLE : OFF", you will receive VHF or UHF broadcast channels only.

Self-diagnosis function

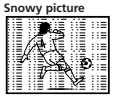
Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the STANDBY indicator flashes red. The number of times the STANDBY indicator flashes indicates the possible causes.



1. Check that the red flashes of the STANDBY indicator is about 3 seconds per interval.
2. Count the number of times the STANDBY indicator flashes.
3. Press POWER to turn off your TV.
4. Inform your nearest Sony service center about the number of times the STANDBY indicator flashes.
   Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .

Symptom	Solutions	Possible cause
Snowy picture  Noisy sound	• Check the antenna cable and connection on the TV, VCR and on the wall. (page 4)	• Connection is loose or the cable is damaged.
	• Preset the channel again. (page 9)	• Channel presetting is inappropriate or incomplete.
	• Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	• The antenna type is inappropriate.
	• Adjust the antenna direction. Contact a Sony dealer for advice.	• The antenna direction is inappropriate.
	• Try using a booster.	• Signal transmission is low.
Distorted picture Noisy sound	• Turn off or disconnect the booster if it is in use.	• Broadcast signals are too strong.
Good picture Noisy sound	• Check the power cord, antenna and the VCR connections.	• The power cord, antenna or VCR is not connected.
	• Press POWER on the remote. • Press POWER on the TV to turn off the TV about five seconds, then turn it on again.	• The TV is not turned on.
Good picture No sound	• Press VOL + to increase the volume level.	• The volume level is too low.
	• Press MUTING to cancel the muting.	• The sound is muted.
	• Press MTS until a good sound is heard.	• Broadcast signal has a transmission problem.

KV-XF29N90/XF29N93
RM-914

Troubleshooting (continued)

Symptom	Solutions	Possible cause
Dotted lines or stripes	• Do not use a hair dryer or other equipment near the TV. • Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice.	• There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts"	• Use a highly directional antenna.	• Broadcast signals are reflected by nearby mountains or buildings.
	• Adjust the antenna direction. Contact a Sony dealer for advice.	• The antenna direction is inapproprite.
	• Turn off or disconnect the booster if it is in use.	• Use of a booster is inappropriate.
No color	• Display the A/V CONTROL menu and select "ADJUST" of PICTURE MODE, then adjust the COLOR level. (page 19 and 20)	• The color level setting is too low.
	• Adjust the antenna direction. Contact a Sony dealer for advice.	• The antenna direction is inapproriate.
Abnormal color patches	• Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press POWER on the TV to turn off the TV for about five minutes, then turn it on again.	• The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.
TV cannot receive stereo broadcast signal.	• Press MTS until "STEREO" appears on the screen.	• The stereo reception setting is inappropriate.
Stereo broadcast sound switches on and off or is distorted.	• Check the antenna cable and connection on the TV, VCR and on the wall. (page 4)	• Connection is loose or the cable is damaged.
or	• Adjust the antenna direction. Contact a Sony dealer for advice.	• The antenna direction is inappropriate.
The sound switches between monaural and stereo frequently.	• Press MTS until a good sound is heard.	• Broadcast signal has a transmission problem.

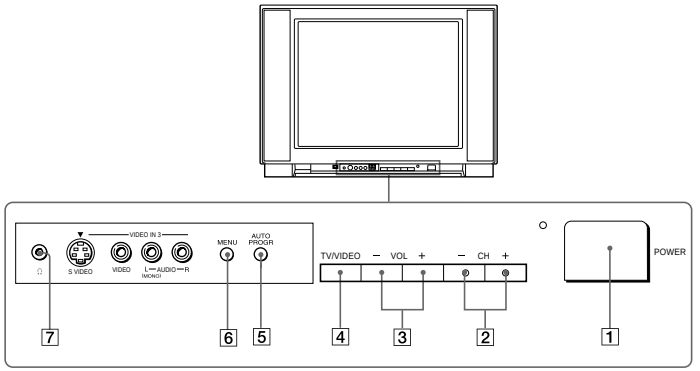
Symptom	Solutions	Possible cause
Picture slant	• Display the SET UP menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. (page 23)	• The terrestrial magnetism affects your TV set.
The STANDBY indicator on your TV flashes red for about 3 seconds per interval.	• Contact your nearest Sony service center.	• Your TV may need service.
TV cabinet creaks.	—	• Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
A "boom" sound is heard when the TV is turned on.	—	• The TV's demagnetizing function is working. This does not indicate a malfunction.

continued

Identifying parts and controls

Refer to the pages indicated in parentheses ( ) for details.

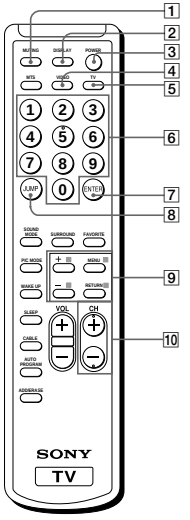
Front panel



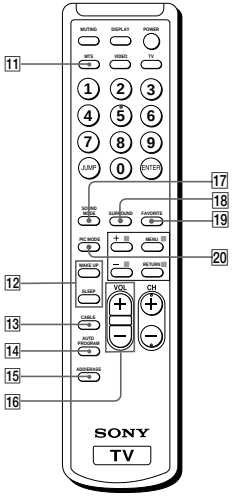
1 POWER button (10)
2 CH +/– (channel) buttons (10)
3 VOL +/– (volume) buttons (10)
4 TV/VIDEO button (11)
5 AUTO PROGR button (5)
6 MENU button (18)
7 ∩ (headphone) jack

continued

Remote Control



1 MUTING button (10)
2 DISPLAY button (10)
3 POWER button (10)
4 VIDEO button (10)
5 TV button (10)
6 Number buttons (9)
7 ENTER button (9)
8 JUMP button (10)
9 Menu operation buttons (18)
MENU button
+ or – buttons
RETURN button
10 CH +/– button (9)



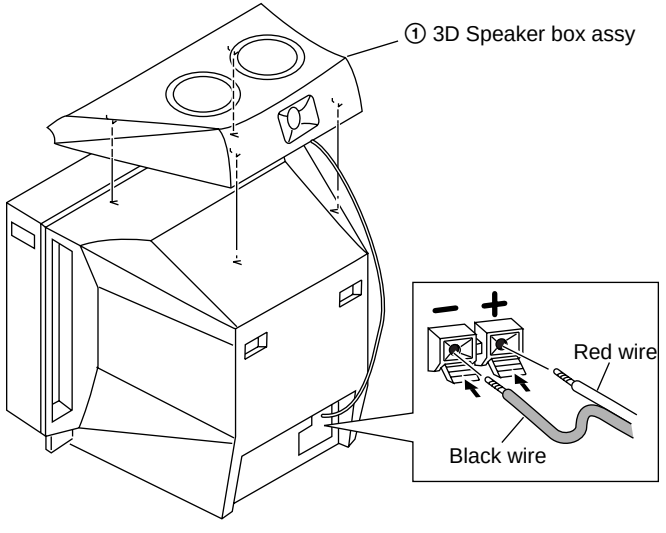
11 MTS button (16)
12 Timer setting buttons (12)
WAKE UP timer
SLEEP timer
13 CABLE button (5)
14 AUTO PROGRAM button (5)
15 ADD/ERASE button (9)
16 VOL (volume) +/– buttons (10)
17 SOUND MODE button (13)
18 SURROUND button (15)
19 FAVORITE button (14)
20 PIC MODE button (13)

PRODUCT NAME:	COLOR TV
MODEL:	KV-XF29N93/KV-XF29N90
INPUT VOLTAGE:	110V
FREQUENCY:	60 Hz
POWER CONSUMPTION:	176W
SERIAL NUMBER:	FOLLOW THE MODEL NUMBER LABEL OF THE TV SET
MANUFACTURER COUNTRY:	MALAYSIA
MANUFACTURER:	SONY TV INDUSTRIES (M) SDN BHD
IMPORTER:	SYNLEE CORPORATION
ADDRESS:	2F, 372 LIN SEN NORTH ROAD TAIPEI 10421 TAIWAN
CONTACT NO FOR SERVICE AND INQUIRIES:	
TAIPEI HEADQUARTER:	(02)2521-0282
TAICHOONG BRANCH:	(04)337-5821
KAO SHIONG BRANCH:	(07)348-2246

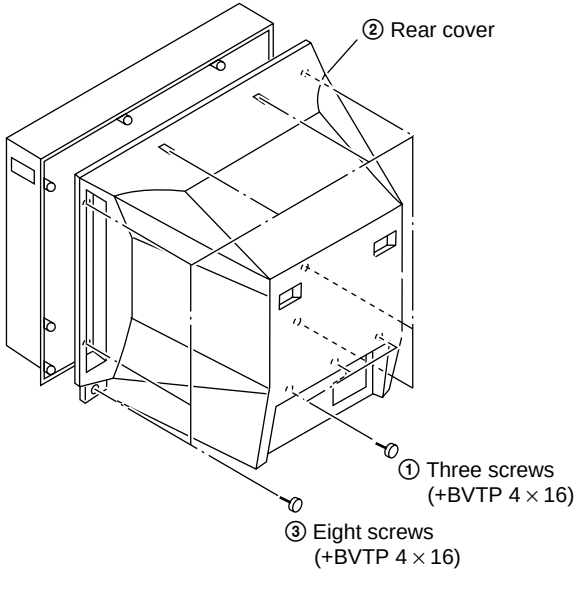
Sony Corporation Tokyo, Japan

SECTION 2
DISASSEMBLY

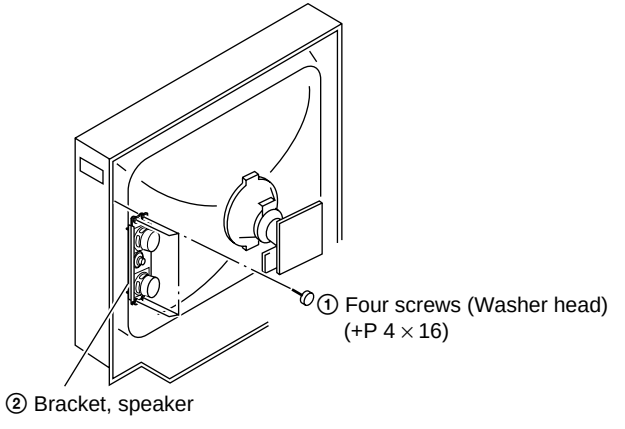
2-1. 3D SPEAKER BOX REMOVAL (KV-XF29N93 only)



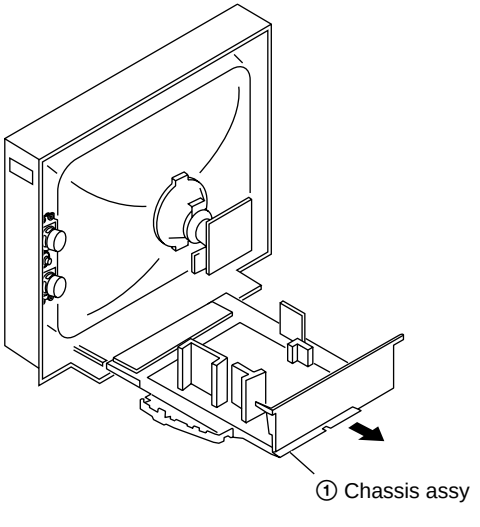
2-2. REAR COVER REMOVAL



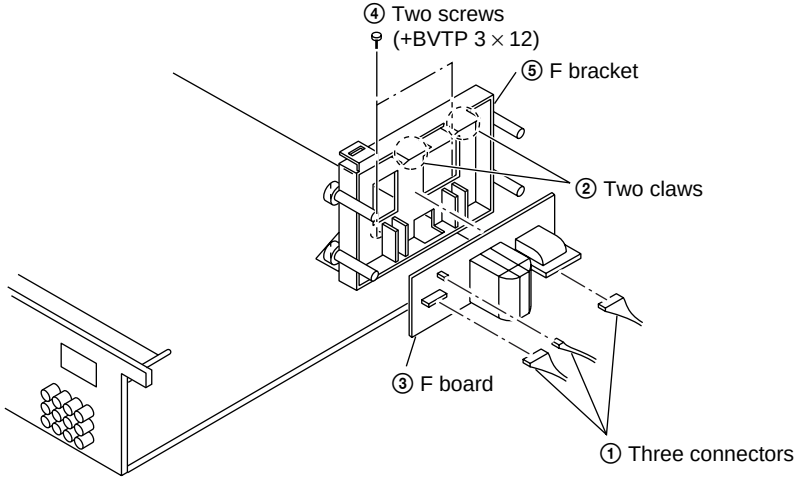
2-3. SPEAKER REMOVAL



2-4. CHASSIS ASSY REMOVAL

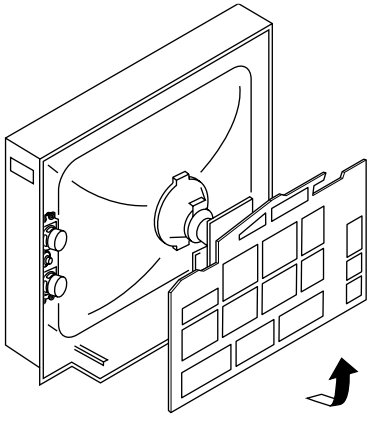


2-5. F BRACKET REMOVAL



2-6. SERVICE POSITION

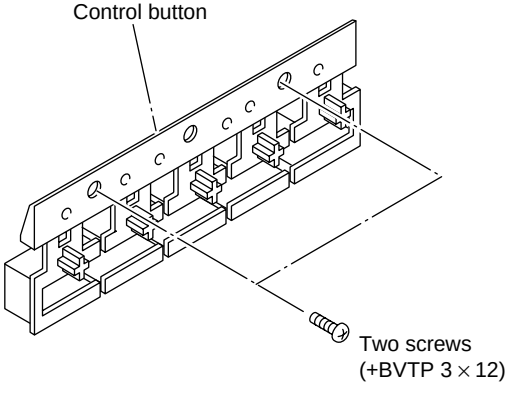
(Note: Remove F Bracket first.)



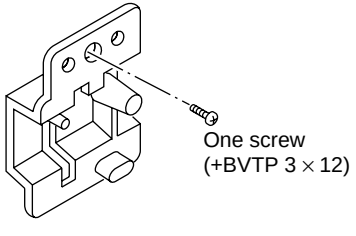
2-7. REPLACEMENT OF PARTS

For replacement of the Control Button and Light Guide, unscrew them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

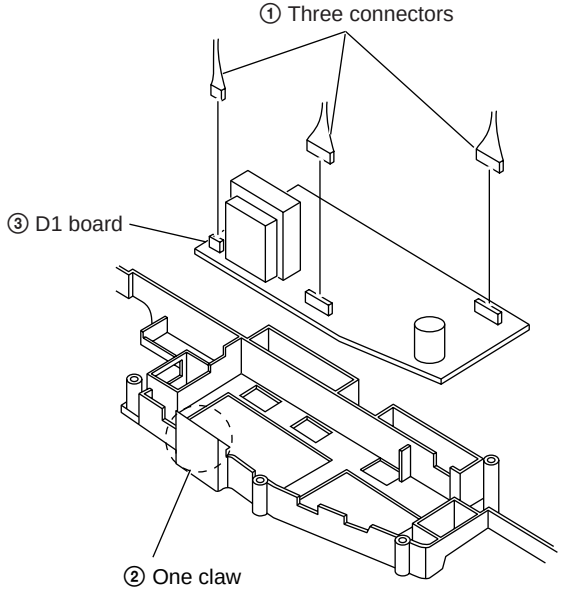
2-7-1. REPLACEMENT OF CONTROL BUTTON



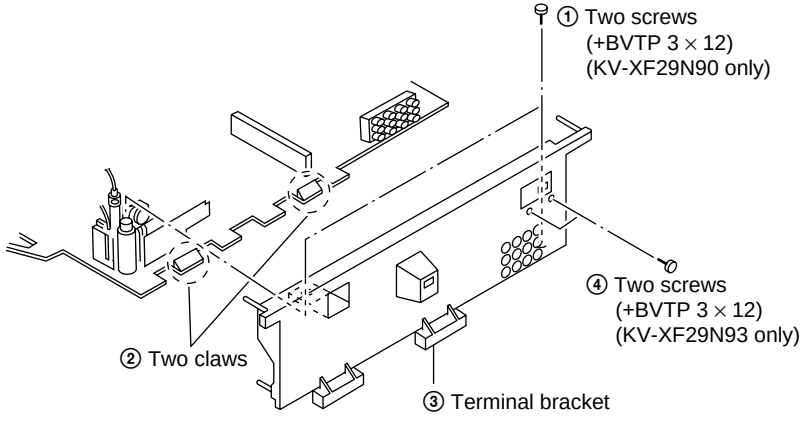
2-7-2. REPLACEMENT OF LIGHT GUIDE



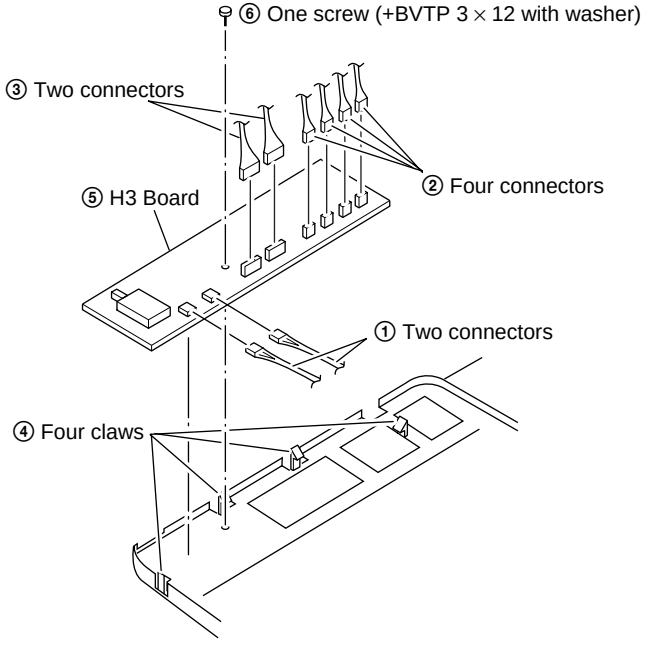
2-8. D1 BOARD REMOVAL



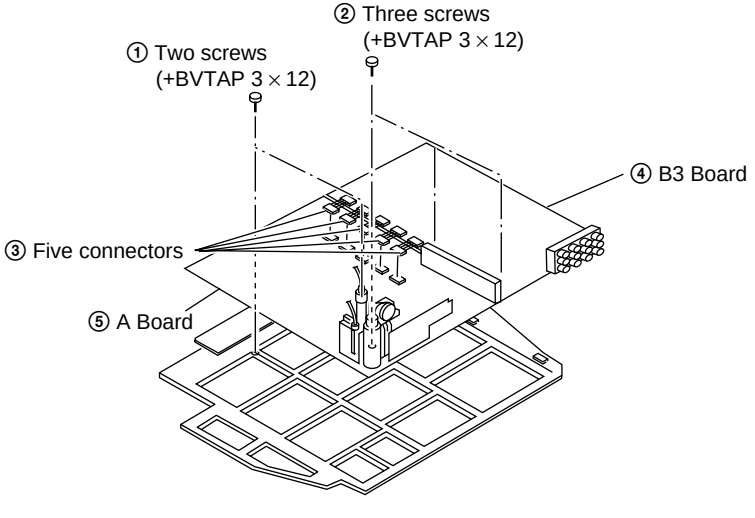
2-9. TERMINAL BRACKET REMOVAL



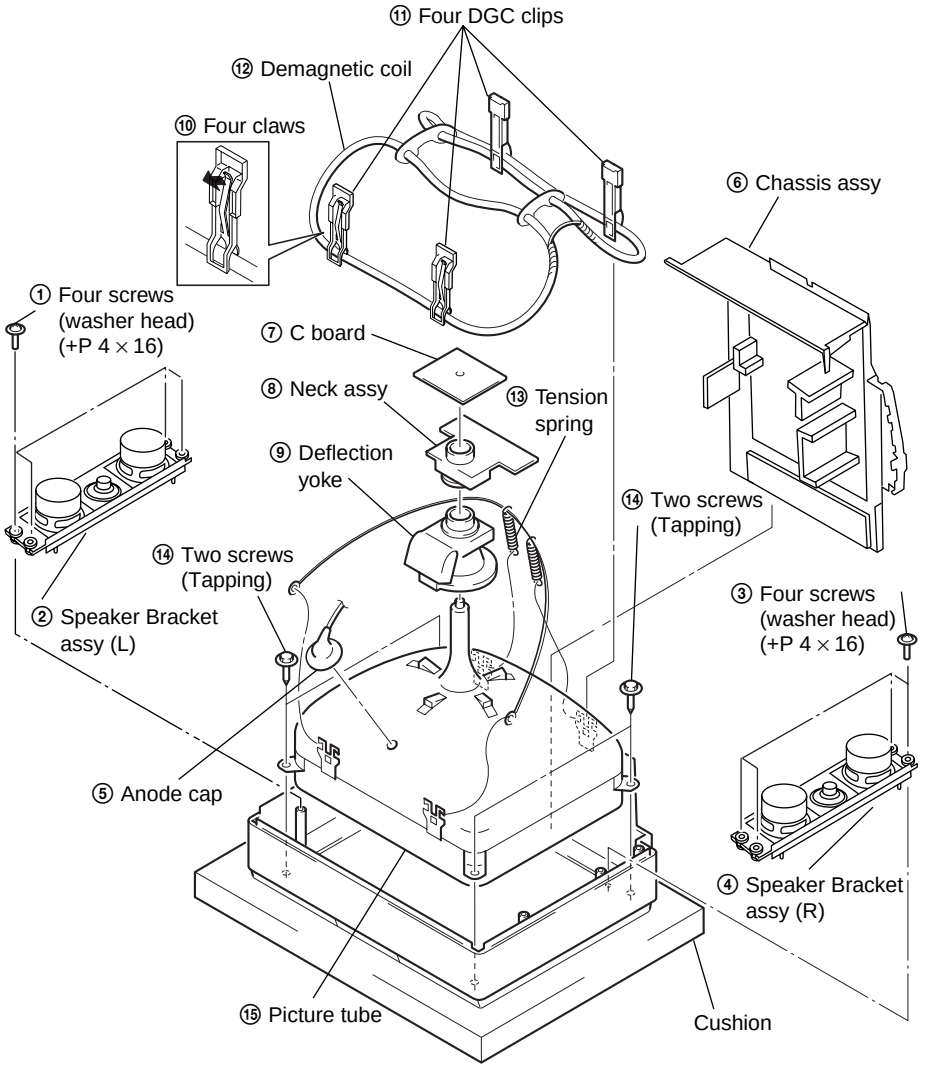
2-10. H3 BOARD REMOVAL



2-11. A AND B3 BOARDS REMOVAL



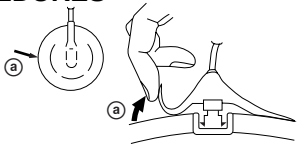
2-12. PICTURE TUBE REMOVAL


⑪ Four DGC clips
⑫ Demagnetic coil
⑩ Four claws
⑥ Chassis assy
① Four screws (washer head) (+P 4 × 16)
⑦ C board
⑧ Neck assy
⑬ Tension spring
⑨ Deflection yoke
⑭ Two screws (Tapping)
⑭ Two screws (Tapping)
② Speaker Bracket assy (L)
③ Four screws (washer head) (+P 4 × 16)
⑤ Anode cap
④ Speaker Bracket assy (R)
⑮ Picture tube
Cushion

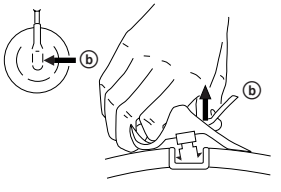
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

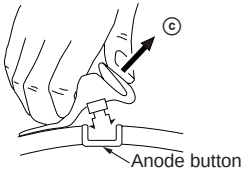
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



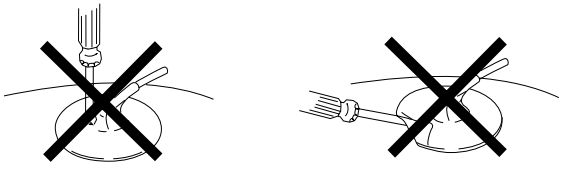
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-caps with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:
PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig3-2.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-4.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-5.)

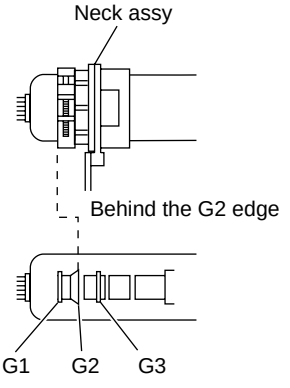


Fig. 3-1

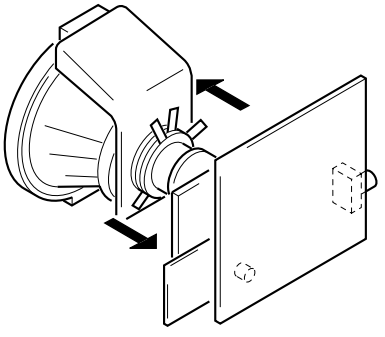


Fig. 3-2

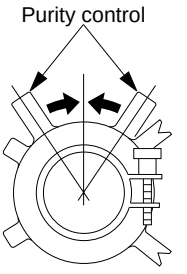


Fig. 3-3

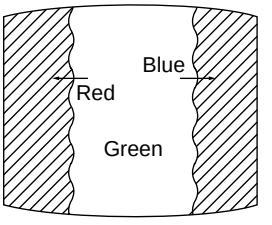


Fig. 3-4

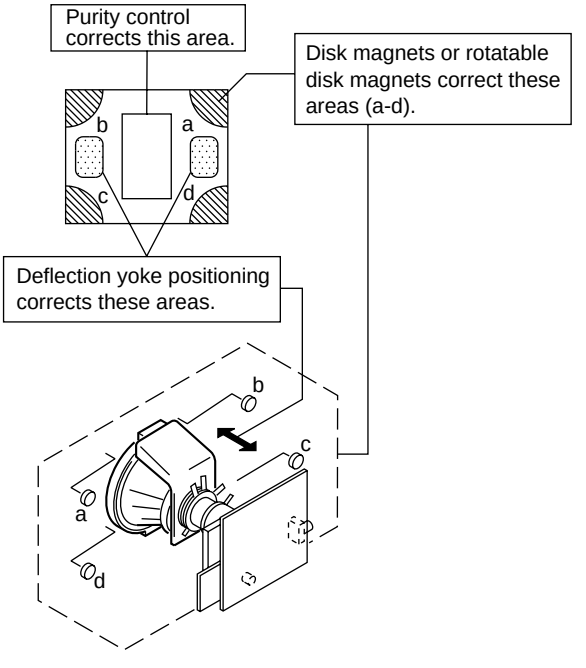


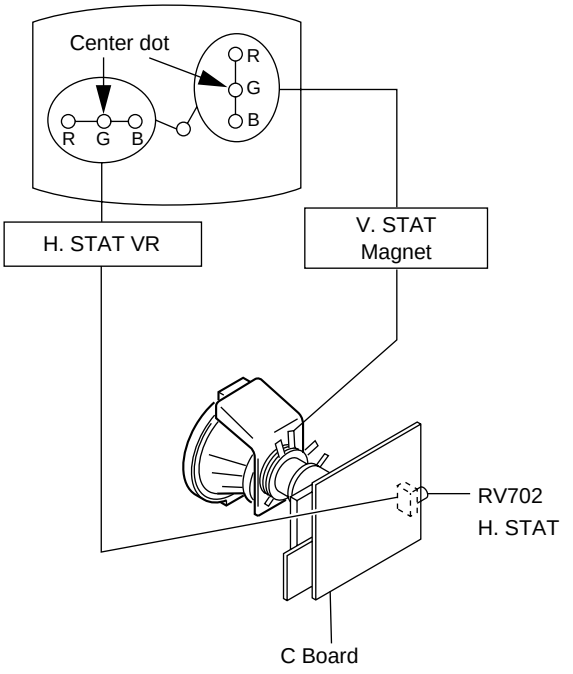
Fig. 3-5

3-2. CONVERGENCE

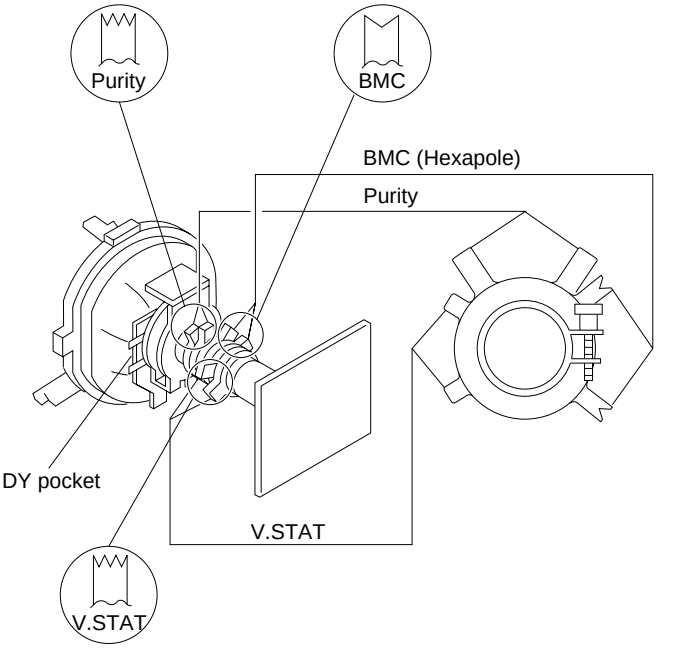
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

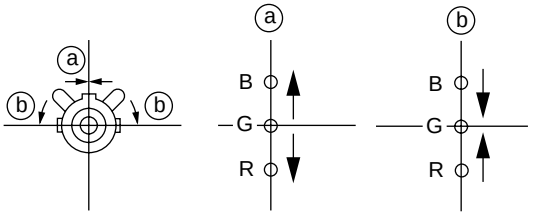
(1) Horizontal and Vertical Static Convergence



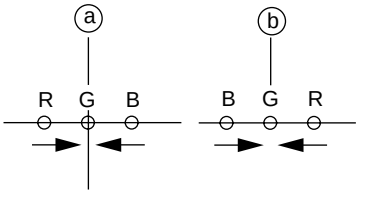
1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)



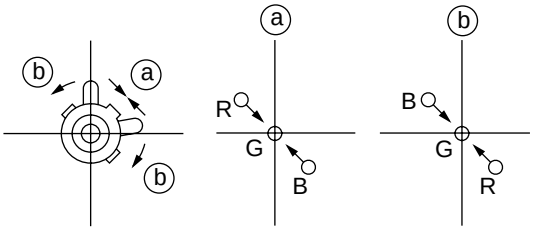
① V. STAT



② H. STAT VR

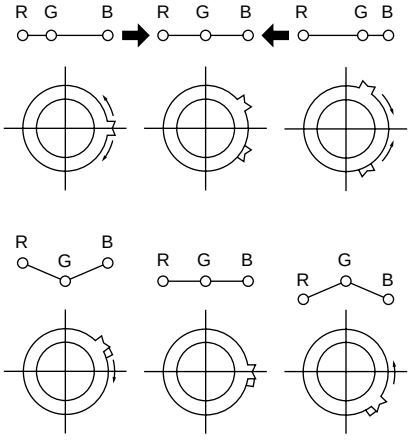


③



④ BMC (Hexapole) Magnet.

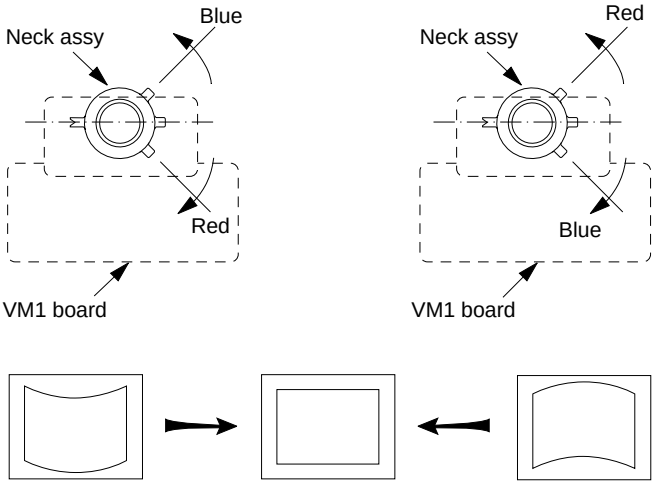
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .

2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



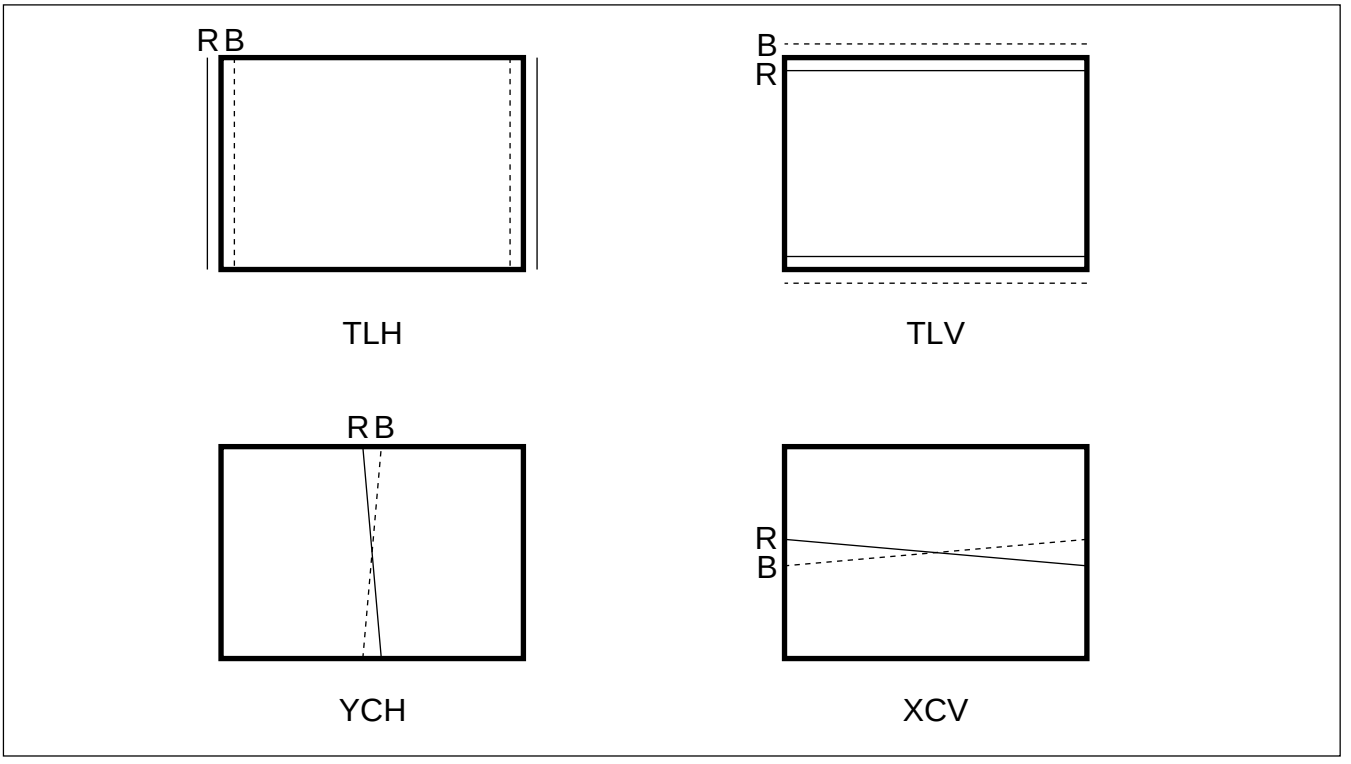
Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

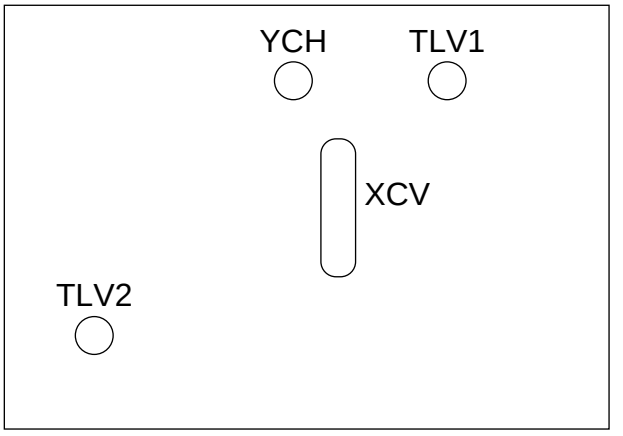
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence

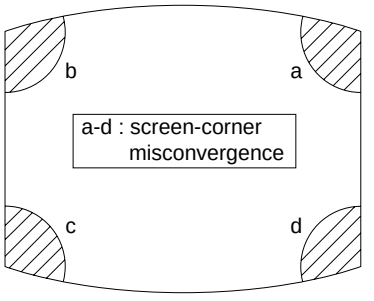


TLV	Rotate	TLV-2	VOL (29”, 34”) on DY
	Rotate	TLV	VOL (25”) on DY
XCV	Rotate	XCV	Adj core on DY
YCH	Rotate	YCH	VOL on DY
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)

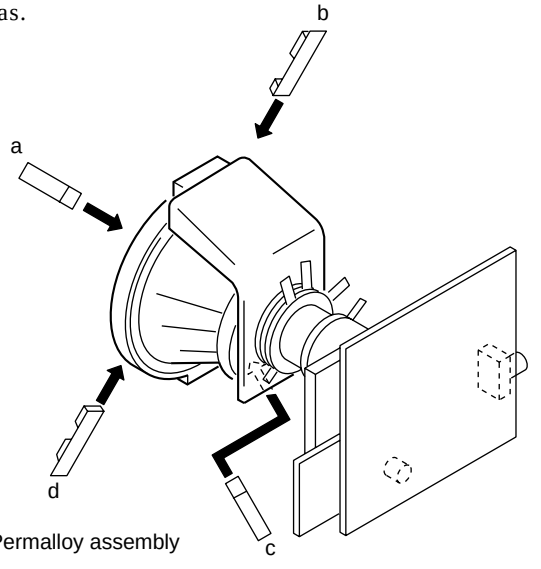
ON DY:



(3) Screen-corner Convergence

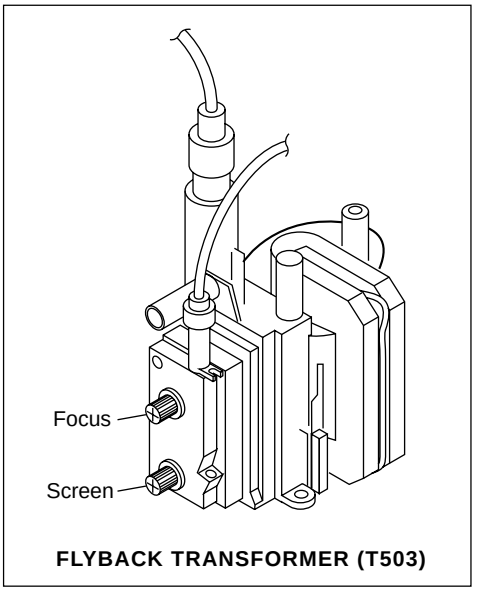


Fix a Permalloy assy corresponding to the misconverged areas.



3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.

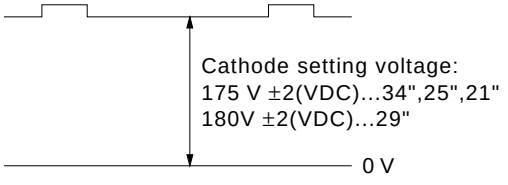


FLYBACK TRANSFORMER (T503)

3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

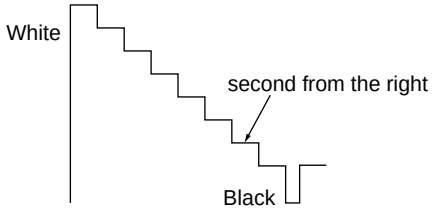


2. WHITE BALANCE ADJUSTMENT

1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the PICTURE to minimum.
4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

3. SUB BRIGHT ADJUSTMENT

1) Set to service mode.
2) Input a staircase signal of black to white from the pattern generator.
3) BRIGHTNESS .... 50%.
   PICTURE ..... MINIMUM
4) Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.



SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-914 that comes with this unit.

a. ENTERING SERVICE MODE

With the unit on standby
↓
DISPLAY
↓
5
↓
VOL (+)
↓
POWER

This operation sequence puts the unit into service mode.

b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander), then press POWER button again, hereupon it becomes TV mode.

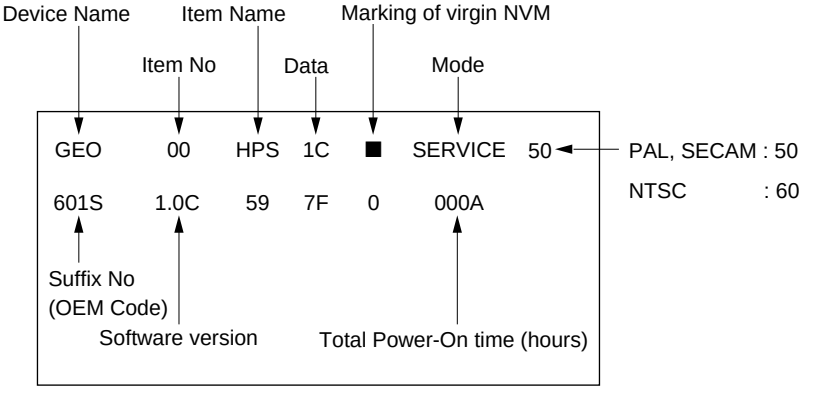
c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN), select an item of adjustment.
3) Press MUTING button and it will indicate WRITE on the screen.
4) Press 0 button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

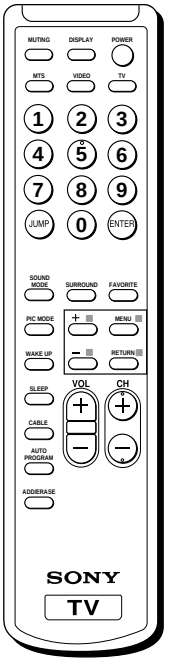
1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

The screen display is :



1, 4 ↓	Select the adjustment item.
3, 6 ↓	Raise/lower the data value.
MUTING ↓	Writes.
0	Executes the writing.

7, 0	All the data becomes the values in memory.
8, 0	All user control goes to the standard state.
5, 0	Service data initialization (Be sure not to use usually.)
2, 0	Write 50Hz adjustment data to 60Hz, or vice versa.



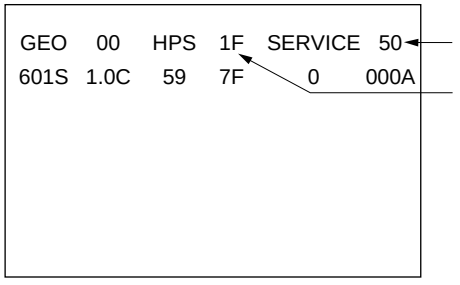
RM-914

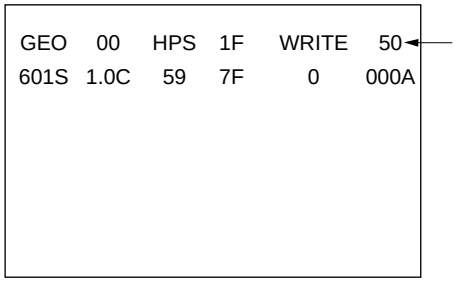
4-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

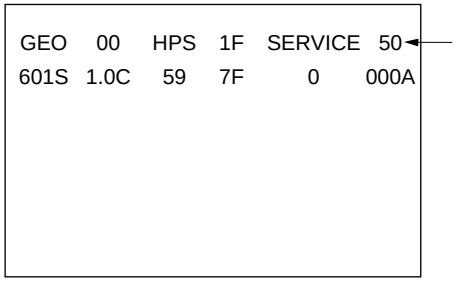
This explanation uses H-Position as an example.

1. Select “GEO 00 HPS” with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)





Written with [MUTING]



Write executed with [0]

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note : 1. In [WRITE], the data for all items are written into memory together.

2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
GEO	0	HPS	7	3F	H Position	50/60HZ	12 (7-2)	CXA2130S(88H)	99 (7-2)
	1	HSZ	1F	3F	H Size	50/60HZ	11 (7-2)		98 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60HZ	13 (7-2)		9A (7-2)
	3	TLT	7	0F	Trapezium	50/60HZ	15 (7-4)		9C (7-4)
	4	VPS	1F	3F	V Position	50/60HZ	0F (7-2)		96 (7-2)
	5	VSZ	1F	3F	V Size	50/60HZ	0E (7-2)		95 (7-2)
	6	SCO	7	0F	S Correction	50/60HZ	10 (7-4)		97 (7-4)
	7	VLN	7	0F	V Linearity	50/60HZ	10 (3-0)		97 (3-0)
	8	BOW	7	0F	AFC Bow	50/60HZ	16 (7-4)		9D (7-4)
	9	AGL	7	0F	AFC-Angle	50/60HZ	16 (3-0)		9D (3-0)
	0A	UPN	1F	3F	Upper Pin	50/60HZ	14 (7-2)		9B (7-2)
	0B	LPN	2F	3F	Lower Pin	50/60HZ	18 (7-2)		9F (7-2)
	0C	HBL	1	1	H Blanking on/off		18 (1)		6F (1)
	0D	LBL	0F	0F	Left H Blanking	50/60HZ	17 (7-4)		9E (7-4)
	0E	RBL	2	0F	Right H Blanking	50/60HZ	17 (3-0)		9E (3-0)
WHB	0	RDR	1F	3F	R Drive	DYNAMIC/others	09 (7-2)	CXA2130S(88H)	A6 (7-2)
	1	GDR	1F	3F	G Drive	DYNAMIC/others	0A (7-2)		A7 (7-2)
	2	BDR	1F	3F	B Drive	DYNAMIC/others	0B (7-2)		A8 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/others	07 (3-0)		AA (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/others	08 (7-4)		AB (7-4)
	5	BCT	7	0F	B Cutoff	SECAM/others	08 (3-0)		AB (3-0)
	6	BMN	15	1F	Brightness Minimum Data		06 (7-2)		106
	7	SBR	1F	3F	Sub Brightness Control		06 (7-2)		107
SAJ	0	PMX	33	3F	Picture Maximum Data		03 (7-2)	CXA2130S(88H)	105
	1	SHU	8	0F	Sub Hue Control	TV/Video	05 (7-2)		108
	2	SSH	8	0F	Sub Sharpness Control	TV/Video	07 (7-4)		109
	3	SCL	1F	3F	Sub Color Control	NTSC/others	04 (7-2)		10A
VP	0	EHT	5	0F	EHT Comp	50/60HZ	15 (3-0)	CXA2130S(88H)	9C (3-0)
	1	GMA	2	03	Gamma Correction (seperated in STD mode)	NTSC/others	268 (1-0)		268 (1-0
	2	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		26B (3-0)
	3	SST	1	03	SECAM ID Start Position		1B (1-0)		72 (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		72 (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		73 (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		73 (7-2)
	7	DYC	1	1	Dynamic Color on/off		0A (1)		61 (1)
	8	ABL	1	1	ABL Mode Switching (except STANDARD mode)		09 (1)		60 (1)
	9	VTH	1	1	ABL Detection Vth Switching		09 (0)		60 (0)
	0A	SFO	1	1	FO Switching for Sharpness	NTSC/others	05 (1)		259 (1)
	0B	DCX	1	1	DC Trans. Ratio Switching		06 (1)		5D (1)
	0C	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		25A (0)

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
VP	0D	HDW	0	1	H Drive Pulse Width Switch		00 (6)		57 (6)
	0E	AFC	1	03	AFC Gain Control	TV/Video/Text	0F (1-0)		A4 (1-0)
	0F	HOS	7	0F	H Oscillation		0C (7-4)		63 (7-4)
	10	HSS	0	1	Slice Level of H Sync Sep.		0D (1)		64 (1)
	11	VSS	0	1	Slice Level of V Sync Sep.		0D (0)		64 (0)
	12	HMS	1	1	Macro Vision C/m off/on	50/60Hz	0E (0)		95 (0)
	13	YUV	0	1	YUV Switch Control		01 (0)		58 (0)
	14	CDV	1	3	CD mode for Video	Video only	0D (5-4)		266 (5-4)
	15	RON	1	1	R ON	not memorized	01 (3)		58 (3)
	16	GON	1	1	G ON	not memorized	01 (2)		58 (2)
	17	BON	1	1	B ON	not memorized	01 (1)		58 (1)
	18	PON	1	1	P ON	not memorized	00 (7)		57 (7)
	19	BLK	0	1	BLK Off		12 (0)		69 (0)
	1A	VMC	0	1	VM Off		13 (0)		6A (0)
AP	0	BCS	1	3	Bass Center Shift		#4 (3-0)	TDA7315(80H)	25B (1-0)
	1	TCS	1	3	Treble Center Shift		#5 (3-0)		25C (1-0)
	2	TRF	2	3	RF Treble Offset		#5 (3-0)		265 (1-0)
MSP	0	WST	15	FF	W/G Stereo Threshold			MSP3415D(84H)	165
	1	WBT	EA	FF	W/G Bilingual Threshold				166
	2	WLL	5	FF	W/G Monaural Threshold				167
	3	WAC	1	0F	W/G Agreement Count				168
	4	WDL	30	FF	W/G Search Delay				169
	5	NDL	20	FF	NICAM Search Delay				16A
	6	SDL	10	FF	Stereo status Read Delay				16B
	7	AGC	1	1	AGC Switch Auto/Constant		00BB (7)		116 (7)
	8	REL	28	3F	AGC Gain at Constant Mode		00BB (6-1)		116 (6-1)
	9	CRM	0	1	Carrier muting on/off		00BB (9)		115 (9)
	0A	ACO	1	1	Audio Clock out on/off		0083 (5)		11A (5)
	0B	FP	1B	7F	FM Prescale for non-M system		000E (14-8)		221
	0C	FPM	32	7F	FM Prescale for M system		000E (14-8)		222
	0D	FH	36	7F	FM Prescale for HDEV		000E (14-8)		223
	0E	FHM	65	7F	FM Prescale for HDEV and M		000E (14-8)		224
	0F	WGP	2A	7F	W/G Prescale		000E (14-8)		225
	10	NIP	6D	7F	NICAM Prescale		0010 (14-8)		14F
	11	ERR	50	FF	Auto FM switch Threshold		0021 (10-3)		174
	12	VOL	6D	FF	Loud Speaker gain 7000h to 7ff0h		0000 (15-4)		261

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
SVP	0	SBF	22	3F	SECAM BELL f0		1C (7-2)	CXA2060AS(8AH)	88 (7-2)
	1	HOS	7	0F	H Oscillation		0C (7-4)		83 (7-4)
	2	SHU	8	0F	Sub Hue Control	TV/Video	05 (7-2)		21E
	3	SCL	1F	3F	Sub Color Control	NTSC/others	04 (7-2)		21F
PIP	0	SDL	1	0F	Delay of output SELECT		01 (6-3)	SDA9288X(D6H)	190 (6-3)
	1	PPH	15	FF	H Position of TOP-LEFT Pin P		01/02		1AF
	2	PPV	2E	FF	V Position of TOP-LEFT Pin P		03 (7-0)		1B0
	3	YDL	0	07	Delay of Luminance Input		04 (2-0)		193 (2-0)
	4	HDI	0	0F	H Sync Delay for Inset		06 (3-0)		195 (3-0)
	5	ISC	0	1	Inset Clock Selection		06 (4)		195 (4)
	6	CLP	1	1	Clamp Pulse Selection		06 (5)		195 (5)
	7	CLC	0	1	Clamp Cycle Selection		06 (6)		195 (6)
	8	CON	1	0F	Contrast Adjustment for inset		09 (7-4)		198 (7-4)
	9	PLL	2	03	H Position For A-ch		0D (6-5)		19C (6-5)
	0A	PDV	0	0F	PIP V Pedestal Level		0E (7-4)		19D (7-4)
	0B	PDU	0	0F	PIP U Pedestal Level		0E (3-0)		19D (3-0)
TXT	0	TXH	1	3	Teletext Horizontal Position		10 (1-0)	SAA5261(58H)	257 (1-0)
	1	TXV	0	3	Teletext Vertical Position		10 (6-4)		257 (5-4)
OPM	0	OSH	0A	3F	OSD H Position	Option-Misc	1F1	CXP86461(60H)	17B (7-2)
	1	COM	1	03	Comb Selection				24D (7-6)
	2	APC	1	1	APC Switch				24C (5)
	3	TSY	0	03	TV Sys at Auto TV Sys				24C (4-3)
	4	MUT	0	1	No Signal Mute				24C (0)
	5	AFM	1	1	Auto FM switch				24C (1)
	6	RFB	0	3	C-BPF Control				24D (5-4)
	7	TVO	0	7	Tilt to V-Angle offset				24D (2-0)
	8	DBL	0	1	Disable Blueback Function				24C (2)
OPB	0	OP1	51	FF	Optional Bits 1 (see below)	Option-Bits		CXP86461(60H)	4B
	1	OP2	1	FF	Optional Bits 2 (see below)				4C
	2	OP3	28	FF	Optional Bits 3 (see below)				4D

NOTE

- shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION.

No. OPB0 OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
KV-XF29N90	0	1	0	1	0	0	0	1
KV-XF29N93 (Taiwan)	0	1	0	1	0	0	0	1
KV-XF29N93 (Philippines)	1	1	1	0	0	0	0	1

No. OPB1 OP2

Item	TOP	NICAM	HDEV	Thai Bil	Dis Fav.	DVD Input	AV Input	
KV-XF29N90	0	0	0	0	0	0	1	1
KV-XF29N93 (Taiwan)	0	0	0	0	0	0	1	1
KV-XF29N93 (Philippines)	0	0	0	0	0	0	1	1

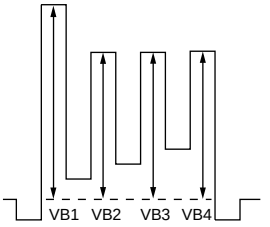
No. OPB2 OP3

Item	PIC Rotate	2199 Curve	Auto PIC	Auto TV sys	US ST	AV Mono	11 KEY	Color SW
KV-XF29N90	0	0	0	0	1	0	0	0
KV-XF29N93 (Taiwan)	0	0	0	0	1	0	0	0
KV-XF29N93 (Philippines)	1	0	1	0	1	0	0	0

4-3. PICTURE QUALITY ADJUSTMENTS

SUB COLOR ADJUSTMENT

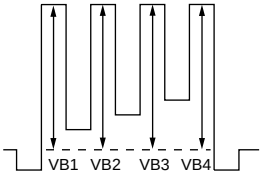
1. Input a PAL color-bar.
2. Set to the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
4. Set to Service Mode and select SAJ 3 'SCL' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust SAJ 3 'SCL' as step 2 to 5 when receiving NTSC color-bar.



VB2 = VB3 = VB4

SUB HUE ADJUSTMENT

1. Select Video 1.
2. Input a NTSC color-bar, video into Video 1.
3. Set the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 1 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].

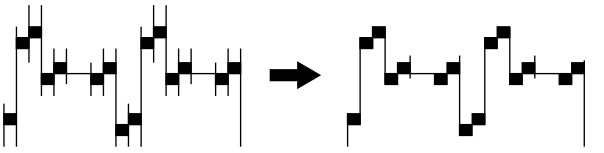


VB1 = VB2 = VB3 = VB4

6. Press [MUTING] → [0] of the commander to write the data.

BELL FILTER ADJUSTMENT

1. Input SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to CN303 pin ⑨ (not mounted).
3. Adjust SERVICE MODE, ITEMS 'SBF' as shown below.



4-4. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (μ-COM) to the following new IC at the same time.
IC001(μ-CON):
CXP86461-617S

1. Enter to Service Mode.

2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.

3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the items with fine adjustment.
   Write the data per each item number ([MUTING] +[0]).

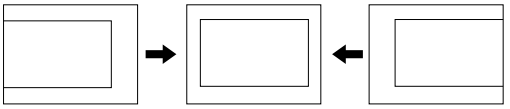
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons [3] and [6].

5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (This will also cancel Service Mode.)

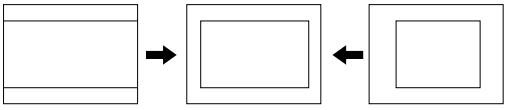
4-5. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

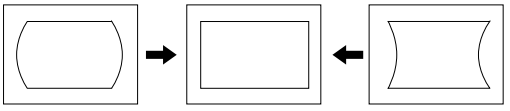
GEO 0 HPS (H POSITION)



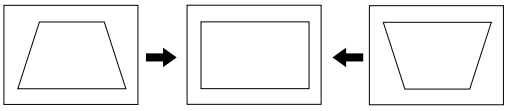
GEO 1 HSZ (H SIZE)



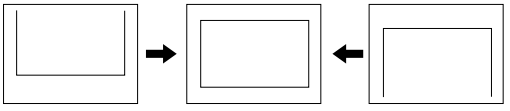
GEO 2 PAP (PIN AMP)



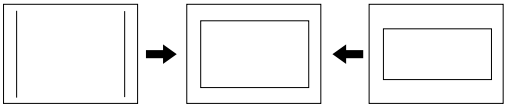
GEO 3 TLT (TRAPEZIUM)



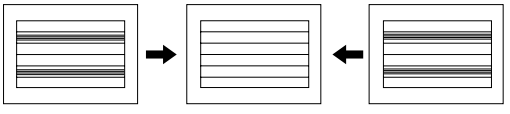
GEO 4 VPS (V POSITION)



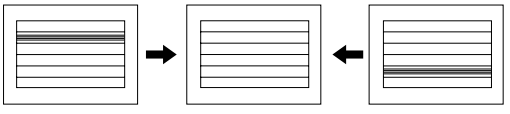
GEO 5 VSZ (V SIZE)



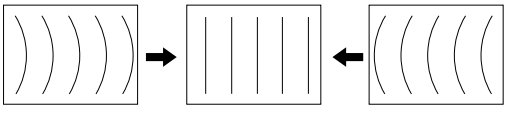
GEO 6 SCO (VERTICAL S-Correction)



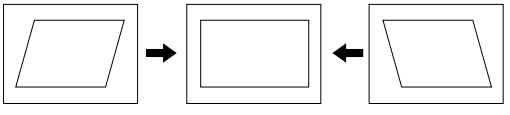
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

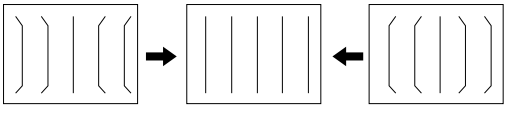


GEO 9 AGL (AFC.ANGLE)



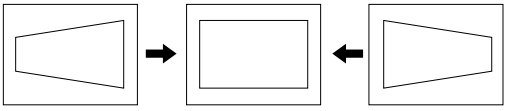
GEO 0A UCP (UPPER CORNER PIN)

GEO 0B LCP (LOWER CORNER PIN)



PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (Rotate RV1801)



MEMO

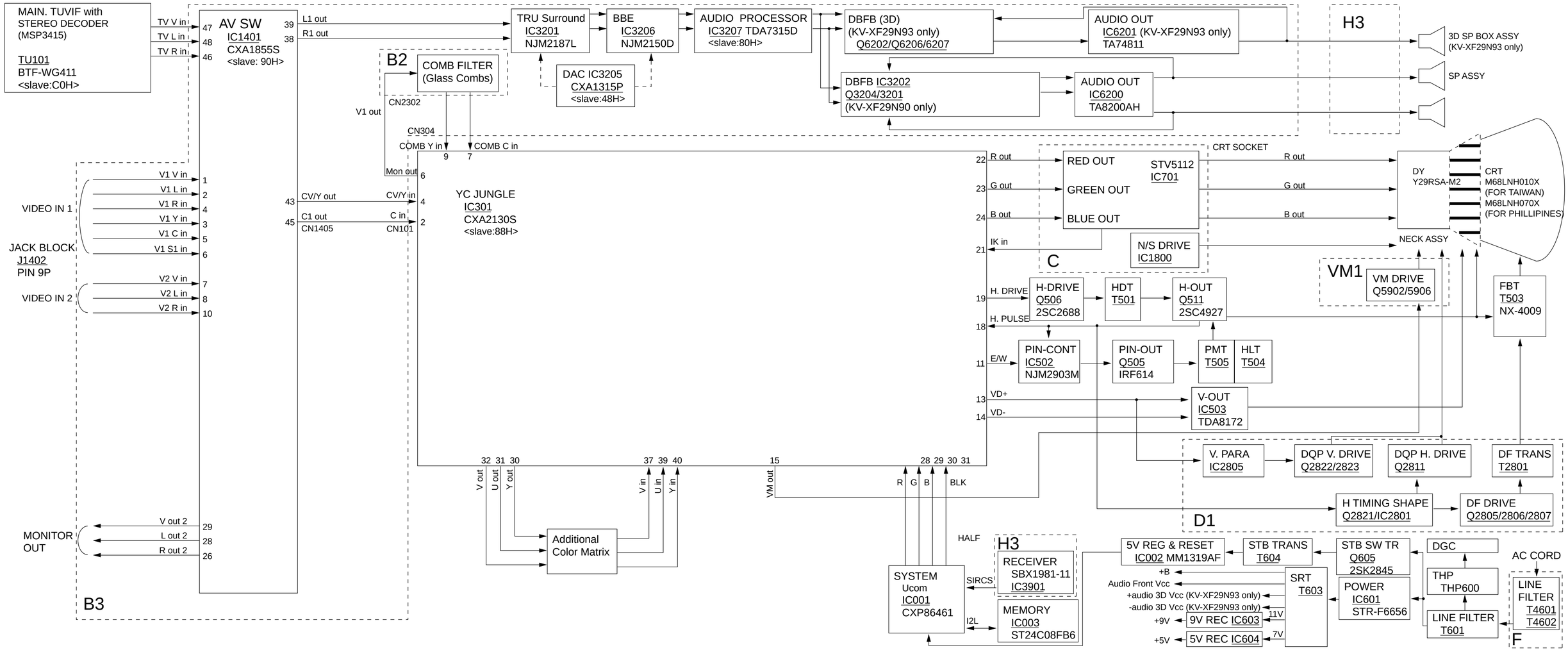
MEMO

MEMO

KV-XF29N90/XF29N93
RM-914
KV-XF29N90/XF29N93
RM-914

SECTION 5
DIAGRAM

5-1. BLOCK DIAGRAM



SECTION 6
EXPLODED VIEWS

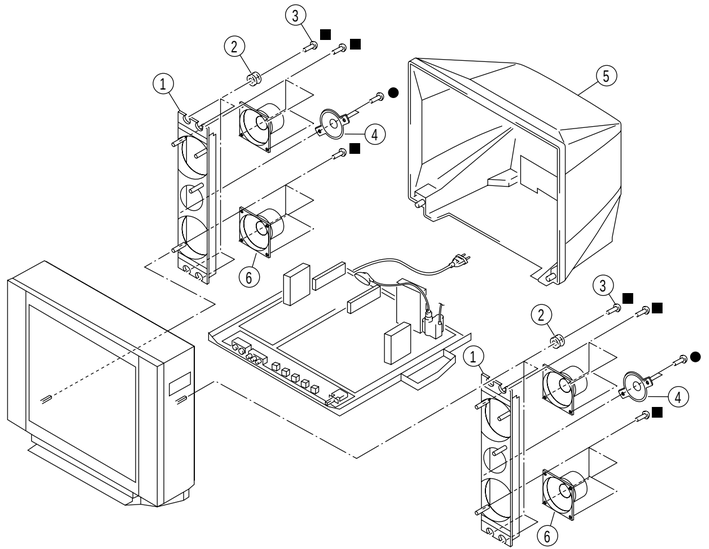
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. SPEAKER BRACKET

■: 7-685-663-71 SCREW +BVTP 4 × 16
●: 7-685-648-71 SCREW +BVTP 3 × 12

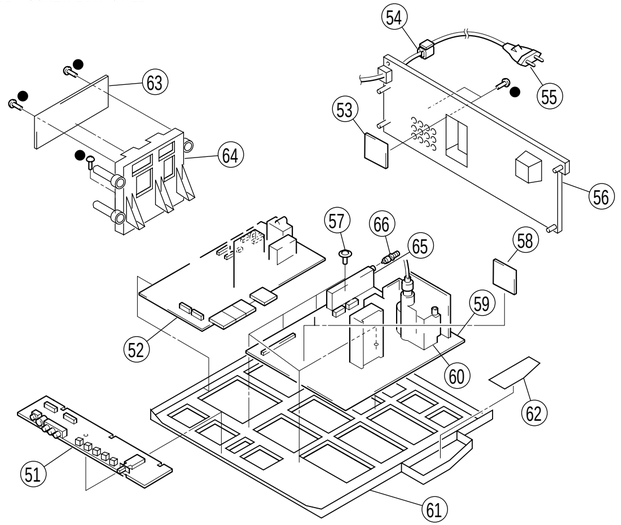


REF. NO.		PART NO.	DESCRIPTION	REMARK
1		4-065-512-05	BRACKET, SPEAKER	
2		1-374-745-12	CUSHION (A) (KV-XF29N90/XF29N93 (TAIWAN))	
		4-374-745-21	CUSHION (A) (KV-XF29N93 (PHILIPPINES))	
3		4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
4		1-529-190-11	SPEAKER (5CM)	
5	⚠	4-065-506-01	COVER, REAR	
6		1-529-179-11	SPEAKER (8CM)	

KV-XF29N90/XF29N93
RM-914

6-2. CHASSIS

●: 7-685-648-71 SCREW BVTP 3 × 12



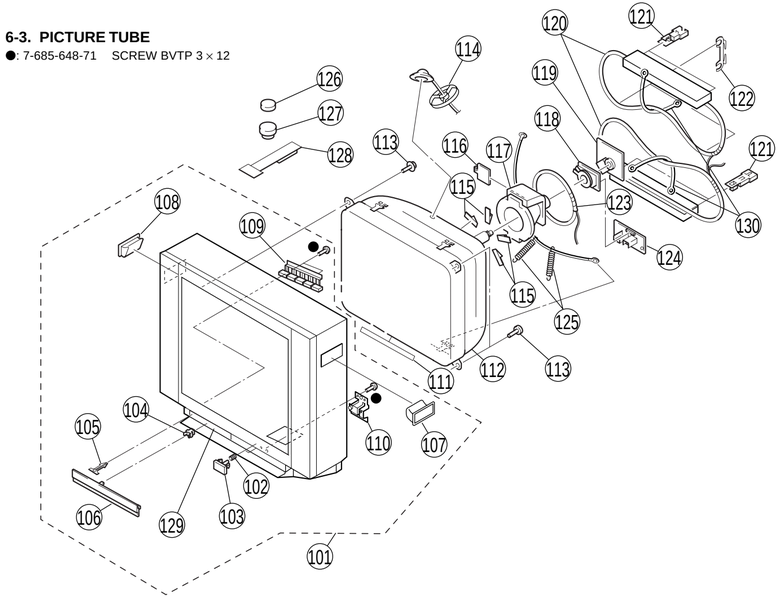
REF. NO.		PART NO.	DESCRIPTION	REMARK
51	*	A-1372-622-A	H3 BOARD, MOUNTED (KV-XF29N90)	
	*	A-1372-668-A	H3 BOARD, MOUNTED (KV-XF29N93(TAIWAN))	
	*	A-1372-573-A	H3 BOARD, MOUNTED (KV-XF29N93(PHILIPPINES))	
52	*	A-1135-995-A	B3 BOARD, COMPLETE (KV-XF29N90)	
	*	A-1136-015-A	B3 BOARD, COMPLETE (KV-XF29N93(TAIWAN))	
	*	A-1135-972-A	B3 BOARD, COMPLETE (KV-XF29N93(PHILIPPINES))	
53	*	A-1388-254-A	J2 BOARD, MOUNTED (KV-XF29N93(TAIWAN))	
	*	A-1388-228-A	J2 BOARD, MOUNTED (KV-XF29N93(PHILIPPINES))	
54		4-022-115-01	HOLDER, AC CORD	
55	⚠	1-575-023-11	CORD, POWER (WITH CONNECTOR) 6A/250V	
56		4-066-684-41	BRACKET, TERMINAL	
57		4-046-797-01	SCREW (3X12), (+)BVTAP	

REF. NO.		PART NO.	DESCRIPTION	REMARK
58	*	A-1131-412-A	B2 BOARD, MOUNTED (FOR TAIWAN)	
	*	A-1131-375-A	B2 BOARD, MOUNTED (FOR PHILIPPINES)	
59	*	A-1298-925-A	A BOARD, COMPLETE (KV-XF29N90)	
	*	A-1298-926-A	A BOARD, COMPLETE (KV-XF29N93(TAIWAN))	
	*	A-1298-918-A	A BOARD, COMPLETE (KV-XF29N93(PHILIPPINES))	
60	⚠	1-453-284-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M3I4)	
61	*	4-066-681-03	BRACKET, MAIN	
62	*	A-1343-659-A	D1 BOARD, MOUNTED (FOR TAIWAN)	
	*	A-1343-586-A	D1 BOARD, MOUNTED (FOR PHILIPPINES)	
63	*	A-1241-377-A	F BOARD, MOUNTED (FOR TAIWAN)	
	*	A-1241-346-A	F BOARD, MOUNTED (FOR PHILIPPINES)	
64	*	4-066-682-01	BRACKET, F PWB	
65		8-598-477-10	TUNER, FSS BTF-WG411	
66		1-573-657-21	PLUG, F-PIN	

KV-XF29N90/XF29N93
RM-914

6-3. PICTURE TUBE

●: 7-685-648-71 SCREW BVTP 3 × 12

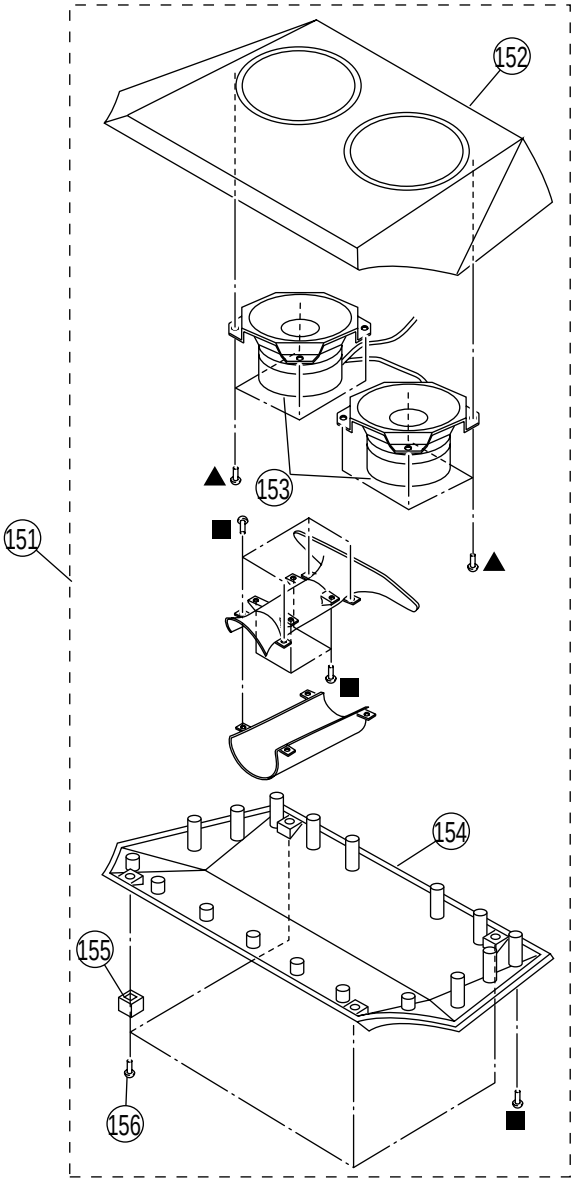


REF. NO.		PART NO.	DESCRIPTION	REMARK
101		X-4036-695-1	BEZNET ASSY (KV-XF29N90)	102-110,129
		X-4036-697-1	BEZNET ASSY (KV-XF29N93 (TAIWAN))	102-110,129
		X-4036-691-1	BEZNET ASSY (KV-XF29N93 (PHILIPPINES))	102-110,129
102		4-036-405-11	SPRING, COMPRESSION	
103		4-065-508-01	BUTTON, POWER	
104		4-047-464-01	CATCHER, PUSH	
105		4-045-250-21	DAMPER	
106		4-068-602-92	DOOR, CONTROL (KV-XF29N90)	
		4-070-385-02	DOOR, CONTROL (KV-XF29N93)	
107		X-4035-862-4	HANDLE ASSY (R)	
108		X-4035-861-4	HANDLE ASSY (L)	
109		4-065-509-01	BUTTON, CONTROL	
110	*	4-065-510-01	GUIDE, LIGHT	
111		4-385-725-01	SHEET, BLOTTING (FOR TAIWAN)	
		4-372-556-11	SHEET, BLOTTING (FOR PHILIPPINES)	
112	⚠	8-735-041-05	PICTURE TUBE (M68LNH010X) (FOR TAIWANJ)	
	⚠	8-735-056-05	PICTURE TUBE (M68LNH070X) (FOR PHILIPPINES)	
113		4-046-765-01	SCREW, TAPPING 7+CROWN WASHER	

REF. NO.		PART NO.	DESCRIPTION	REMARK
114	*	3-704-372-01	HOLDER, HV CABLE	
115		3-703-961-01	SPACER, DY (FOR TAIWAN)	
		4-046-600-11	SPACER, DY (FOR PHILIPPINES)	
116		2-163-920-01	PLATE, TLH CORRECTION	
117		8-451-494-21	DEFLECTION YOKE (Y29RSA-M2) (FOR TAIWAN)	
		8-451-494-31	DEFLECTION YOKE (Y29RSA-M2) (FOR PHILIPPINES)	
118		8-453-011-11	NA299-M	
119	*	A-1331-897-A	C BOARD, MOUNTED (FOR TAIWAN)	
	*	A-1331-872-A	C BOARD, MOUNTED (FOR PHILIPPINES)	
120	⚠	1-416-495-12	COIL, DEMAGNETIC (FOR PHILIPPINES)	
	⚠	1-419-146-11	COIL, DEGAUSSING (FOR TAIWAN)	
121	*	4-062-970-01	CLIP (29RSN), DGC	
122		4-061-369-01	HOLDER, DEGAUSE COIL	
123		1-452-896-11	COIL, NA ROTATION (RT200)	
124	*	A-1342-480-A	VM1 BOARD, MOUNTED (FOR TAIWAN)	
	*	A-1342-442-A	VM1 BOARD, MOUNTED (FOR PHILIPPINES)	
125		4-369-318-61	SPRING, TENSION	
126		1-452-032-00	MAGNET,DISC	
127		1-452-094-00	CIRCULAR DISC MAGNET B	
128		4-051-734-21	PIECE B(120), CONV. CORRECT	
129		4-032-761-01	SHAFT(S), DOOR	
130		4-068-028-01	BAND, DGC	

6-4. 3D SPEAKER (KV-XF29N93 only)

▲: 7-685-661-71 SCREW BVTP 4 × 12
■: 7-685-663-71 SCREW BVTP 4 × 16



REF. NO.		PART NO.	DESCRIPTION	REMARK
151		A-1501-377-C	BOX ASSY, SPEAKER (3D)	
152	*	4-065-515-01	BOX (TP), 3D SPEAKER	
153		1-529-172-11	SPEAKER, LOUD (10CM)	
154	*	4-065-516-01	BOX (BT), 3D SPEAKER	
155	*	4-037-244-01	FOOT	
156		4-302-428-03	SCREW (WASHER HEAD) (+P 3X12)	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : mH, UH : µH

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	A-1298-925-A	A BOARD, COMPLETE (KV-XF29N90(TAIWAN)) **********			
*	A-1298-926-A	A BOARD, COMPLETE (KV-XF29N93(TAIWAN)) **********			
*	A-1298-918-A	A BOARD, COMPLETE (KV-XF29N93(PHILIPPINES)) **********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
		<CAPACITOR>			
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C007	1-126-933-11	ELECT	100MF	20%	16V
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C014	1-126-967-11	ELECT	47MF	20%	50V
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C019	1-104-665-11	ELECT	100MF	20%	25V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C030	1-126-965-11	ELECT	22MF	20%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C101	1-126-964-51	ELECT	10MF	20%	50V
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C104	1-126-933-11	ELECT	100MF	20%	16V
C106	1-163-075-00	CERAMIC CHIP	0.047MF	10%	50V
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C108	1-126-933-11	ELECT	100MF	20%	16V
C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-126-933-11	ELECT	100MF	20%	16V
C113	1-126-967-11	ELECT	47MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C114	1-126-967-11	ELECT	47MF	20%	50V
C300	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C301	1-126-935-11	ELECT	470MF	20%	16V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C303	1-126-959-11	ELECT	0.47MF	20%	50V
C304	1-126-967-11	ELECT	47MF	20%	50V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C309	1-126-957-11	ELECT	0.22MF	20%	50V
C311	1-126-964-11	ELECT	10MF	20%	50V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V
C313	1-164-346-11	CERAMIC CHIP	1MF		16V
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C316	1-126-967-11	ELECT	47MF	20%	50V
C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C323	1-126-965-11	ELECT	22MF	20%	50V
C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C325	1-126-960-11	ELECT	1MF	20%	50V
C327	1-126-965-11	ELECT	22MF	20%	50V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-126-965-11	ELECT	22MF	20%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-126-963-11	ELECT	4.7MF	20%	50V
C332	1-126-963-11	ELECT	4.7MF	20%	50V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C337	1-126-961-11	ELECT	2.2MF	20%	50V
C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C503	1-126-964-11	ELECT	10MF	20%	50V
C506	1-107-638-11	ELECT	33MF	20%	160V
C507	1-161-830-00	CERAMIC	0.0047MF		500V
C510	1-102-112-00	CERAMIC	330PF	10%	50V
C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C514	1-106-383-00	MYLAR	0.047MF	10%	200V
C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C518	1-126-933-11	ELECT	100MF	20%	16V
C519	1-102-212-00	CERAMIC	820PF	10%	500V
C521	1-104-666-11	ELECT	220MF	20%	25V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.		PART NO.	DESCRIPTION			REMARK
C522		1-126-933-11	ELECT	100MF	20%	16V
C523		1-102-002-00	CERAMIC	680PF	10%	500V
C524		1-126-967-11	ELECT	47MF	20%	50V
C526		1-130-495-00	MYLAR	0.1MF	5%	50V
C527		1-102-820-00	CERAMIC	330PF	5%	50V
C528		1-162-116-00	CERAMIC	680PF	10%	2KV
C530		1-137-372-11	FILM	0.022MF	5%	50V
C531		1-107-903-11	ELECT	2.2MF	20%	50V
C532		1-128-528-11	ELECT	470MF	20%	25V
C533		1-128-528-11	ELECT	470MF	20%	25V
C536		1-136-165-00	FILM	0.1MF	5%	50V
C537		1-107-911-11	ELECT	220MF	20%	50V
C538		1-136-617-11	FILM	0.019MF	3%	2KV
C539		1-129-723-00	FILM	0.056MF	5%	630V
C540		1-136-171-00	FILM	0.33MF	5%	50V
C546		1-165-319-11	CERAMIC CHIP	0.1MF		50V
C549		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C550		1-106-220-00	MYLAR	0.1MF	10%	100V
C551		1-126-960-11	ELECT	1MF	20%	50V
C552		1-162-116-00	CERAMIC	680PF	10%	2KV
C553		1-162-116-00	CERAMIC	680PF	10%	2KV
C554		1-137-417-11	MYLAR	0.0047MF	10%	200V
C556		1-128-528-11	ELECT	470MF	20%	25V
C557		1-126-941-11	ELECT	470MF	20%	25V
C558		1-123-024-21	ELECT	33MF		160V
C560		1-102-228-00	CERAMIC	470PF	10%	500V
C561		1-136-557-11	FILM	0.0033MF	5%	630V
C562		1-102-228-00	CERAMIC	470PF	10%	500V
C563		1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C564		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C565		1-107-655-11	ELECT	47MF	20%	250V
C566		1-102-244-00	CERAMIC	220PF	10%	500V
C567		1-115-520-11	FILM	0.68MF	5%	250V
C568		1-102-228-00	CERAMIC	470PF	10%	500V
C570		1-115-522-11	FILM	1MF	5%	250V
C572		1-117-661-71	FILM	0.15MF	5%	250V
C573		1-106-387-00	MYLAR	0.068MF	10%	200V
C574		1-107-652-11	ELECT	10MF	20%	250V
C576		1-130-495-00	MYLAR	0.1MF	5%	50V
C577		1-106-395-00	MYLAR	0.15MF	10%	200V
C582		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C600	⚠	1-104-705-51	FILM	0.1MF	20%	250V
C601		1-129-719-00	FILM (FOR TAIWAN)	0.027MF	5%	400V
C601		1-136-601-11	FILM (FOR PHILIPPINES)	0.01MF	5%	630V
C603		1-126-967-11	ELECT	47MF	20%	50V
C604		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C605	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C606	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C607		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C609		1-126-968-11	ELECT	100MF	20%	50V
C610		1-126-964-11	ELECT	10MF	20%	50V
C611		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C612		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C613		1-113-611-11	ELECT(BLOCK)	820MF	20%	250V

REF. NO.		PART NO.	DESCRIPTION			REMARK
C614		1-126-964-11	ELECT	10MF	20%	50V
C615	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C616		1-130-202-00	FILM	0.022MF	5%	400V
C617		1-107-792-11	CERAMIC	100PF	5%	1KV
C618		1-125-893-11	FILM	680PF	3%	1.5KV
C619	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C620		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C621		1-102-114-00	CERAMIC	470PF	10%	50V
C622		1-102-119-00	CERAMIC	0.0015MF	10%	50V
C623		1-104-665-11	ELECT	100MF	20%	25V
C624		1-125-772-91	CERAMIC	1500PF	10%	2KV
C625		1-102-002-00	CERAMIC	680PF	10%	500V
C626		1-102-002-00	CERAMIC	680PF	10%	500V
C627		1-102-002-00	CERAMIC (KV-XF29N93 ONLY)	680PF	10%	500V
C628		1-126-952-11	ELECT (KV-XF29N93 ONLY)	1000MF	20%	35V
C629		1-126-964-11	ELECT	10MF	20%	50V
C630		1-125-494-11	ELECT(BLOCK)	560MF	20%	160V
C631		1-128-550-11	ELECT	2200MF	20%	50V
C632		1-128-339-11	ELECT	2200MF	20%	16V
C633		1-104-999-11	MYLAR	0.1MF	10%	200V
C634		1-126-934-11	ELECT (FOR TAIWAN)	220MF	20%	16V
C634		1-126-933-11	ELECT (FOR PHILIPPINES)	100MF	20%	16V
C635		1-104-665-11	ELECT	100MF	20%	10V
C636		1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C638		1-161-830-00	CERAMIC	0.0047MF		500V
C641		1-102-002-00	CERAMIC	680PF	10%	500V
C642		1-126-943-11	ELECT	2200MF	20%	25V
C643		1-126-933-11	ELECT	100MF	20%	16V
C644		1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C645		1-137-605-11	FILM	0.01MF	10%	250V
C646		1-107-679-91	ELECT	10MF	20%	450V
C647		1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C649		1-126-940-11	ELECT	330MF	20%	25V
C650		1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C651		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C652		1-126-965-11	ELECT	22MF	20%	50V
C653		1-126-967-11	ELECT	47MF	20%	50V
C655	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C657		1-101-821-00	CERAMIC	0.0022MF		500V
C912		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C913		1-126-933-11	ELECT	100MF	20%	16V

<CONNECTOR>

CN101	*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P
CN102	*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P
CN104		1-695-915-11	TAB (CONTACT)
CN105	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN106	*	1-564-506-11	PLUG, CONNECTOR 3P
CN201	*	1-564-510-11	PLUG, CONNECTOR 7P
CN202	*	1-508-847-00	PIN, CONNECTOR 4P
CN304	*	1-766-955-11	CONNECTOR, BOARD TO BOARD 11P
CN305	*	1-564-509-11	PLUG, CONNECTOR 6P
CN501	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P

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REF. NO.		PART NO.	DESCRIPTION	REMARK
CN502	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN503	*	1-564-510-11	PLUG, CONNECTOR 7P	
CN504		1-695-915-11	TAB (CONTACT)	
CN505	*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN507	*	1-564-509-11	PLUG, CONNECTOR 6P	
CN508		1-695-915-11	TAB (CONTACT)	
CN509		1-695-915-11	TAB (CONTACT)	
CN601	*	1-580-843-11	PIN, CONNECTOR (POWER)	
CN602	*	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN603	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN604	*	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN605	*	1-564-507-11	PLUG, CONNECTOR 4P (KV-XF29N93 ONLY)	
CN608	*	1-564-507-11	PLUG, CONNECTOR 4P	
CN904	*	1-564-512-11	PLUG, CONNECTOR 9P	
			<DIODE>	
D001		8-719-988-61	DIODE 1SS355TE-17	
D002		8-719-988-61	DIODE 1SS355TE-17	
D005		8-719-988-61	DIODE 1SS355TE-17	
D006		1-216-295-91	SHORT 0	
D300		1-216-295-91	SHORT 0	
D301		8-719-988-61	DIODE 1SS355TE-17	
D303		8-719-988-61	DIODE 1SS355TE-17	
D304		8-719-988-61	DIODE 1SS355TE-17	
D305		8-719-988-61	DIODE 1SS355TE-17	
D306		8-719-988-61	DIODE 1SS355TE-17	
D307		8-719-988-61	DIODE 1SS355TE-17	
D308		8-719-988-61	DIODE 1SS355TE-17	
D309		8-719-159-10	DIODE RD5.1SB-T2	
D311		8-719-988-61	DIODE 1SS355TE-17	
D312		8-719-988-61	DIODE 1SS355TE-17	
D313		8-719-988-61	DIODE 1SS355TE-17	
D315		8-719-988-61	DIODE 1SS355TE-17	
D316		8-719-037-06	DIODE RD7.5SB1-T1	
D504		8-719-302-43	DIODE EL1Z	
D505		8-719-988-61	DIODE 1SS355TE-17	
D506		8-719-911-19	DIODE 1SS119-25	
D507		8-719-988-61	DIODE 1SS355TE-17	
D508		8-719-988-61	DIODE 1SS355TE-17	
D509		1-216-063-91	RES,CHIP 3.9K 5% 1/10W	
D510		8-719-988-61	DIODE 1SS355TE-17	
D511		8-719-988-61	DIODE 1SS355TE-17	
D512		8-719-988-61	DIODE 1SS355TE-17	
D513		8-719-908-03	DIODE GP08D	
D517		8-719-945-80	DIODE ERC06-15S	
D518		8-719-074-35	DIODE RU4AM-T4	
D519		8-719-945-80	DIODE ERC06-15S	
D521		8-719-302-43	DIODE EL1Z	
D522		8-719-028-45	DIODE D2L20U	
D523		8-719-302-43	DIODE EL1Z	
D527		8-719-908-03	DIODE GP08D	
D528		8-719-908-03	DIODE GP08D	
D531		8-719-988-61	DIODE 1SS355TE-17	
D532		8-719-988-61	DIODE 1SS355TE-17	
D600		8-719-911-19	DIODE 1SS119-25	
D602		8-719-911-19	DIODE 1SS119-25	
D603		8-719-150-92	DIODE RD33EB3T	
D604		8-719-028-72	DIODE RGP02-17EL-6433	
D605		8-719-510-53	DIODE D4SB60L	
D606		8-719-108-18	THYRISTOR 5P6M	
D607		8-719-404-50	DIODE MA111-TX	
D608		8-719-110-53	DIODE RD20ESB2	
D609		8-719-311-31	DIODE RU-1P	
D610		8-719-043-76	DIODE AK04V0	
D611		8-719-046-74	DIODE AU-01Z-V1	
D612		8-719-071-38	DIODE D5S6M	
D613		8-719-046-74	DIODE AU-01Z-V1	
D614		8-719-046-74	DIODE AU-01Z-V1	
D620		8-719-110-72	DIODE RD30ESB2	
D621		8-719-071-38	DIODE D5S6M	
D622		8-719-071-39	DIODE FMU-G26S	
D623		8-719-978-65	DIODE DTZ-TT11-15B	
D624		8-719-404-50	DIODE MA111-TX	
D625		8-719-069-87	DIODE UDZSTE17-10B	
D628		8-719-911-19	DIODE 1SS119-25	
D629		8-719-052-74	DIODE FMX-12S (KV-XF29N93 ONLY)	
D630		8-719-510-37	DIODE D5LC20U	
D631		8-719-068-00	DIODE ERC04-06SE	
D632		8-719-068-00	DIODE ERC04-06SE	
D633		8-719-948-45	DIODE ERA22-08	
D634		8-719-404-50	DIODE MA111-TX	
D635		8-719-404-50	DIODE MA111-TX	
D636		8-719-510-02	DIODE D1NS4	
D637		8-719-109-96	DIODE RD6.8ESB1	
D638		8-719-510-48	DIODE D1N20R	
			<CONNECTOR>	
DY1	*	1-580-798-11	CONNECTOR PIN (DY) 6P	
			<FERRITE BEAD>	
FB501		1-410-397-21	FERRITE 1.1UH	
FB502		1-410-397-21	FERRITE 1.1UH	
FB600		1-410-397-21	FERRITE 1.1UH	
FB601		1-410-397-21	FERRITE 1.1UH	
FB602		1-410-397-21	FERRITE 1.1UH	
FB603		1-410-397-21	FERRITE 1.1UH	
FB604		1-410-397-21	FERRITE 1.1UH	
FB605		1-412-911-31	FERRITE 0UH	
FB606		1-412-911-31	FERRITE 0UH	
FB607		1-410-397-21	FERRITE 1.1UH (KV-XF29N93 ONLY)	
FB608		1-412-911-31	FERRITE 0UH	
FB611		1-410-397-21	FERRITE 1.1UH	
FB612		1-410-397-21	FERRITE 1.1UH	
FB613		1-410-397-21	FERRITE 1.1UH	
FB615		1-410-397-21	FERRITE 1.1UH	
			<IC>	
IC001		8-752-905-23	IC CXP86461-617S	
IC002		8-759-371-21	IC MM1319AFBE	
IC003		8-759-370-34	IC ST24C08FB6	
IC301		8-752-088-39	IC CXA2130S	
IC502		8-759-700-07	IC NJM2903M	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK
IC503	8-759-980-58	IC TDA8172		
IC601	8-749-014-48	IC STR-F6656		
IC602	8-749-920-61	IC SE-135N		
IC603	8-759-701-59	IC NJM78M09FA		
IC604	8-759-231-53	IC TA7805S		
		<CHIP CONDUCTOR>		
JR002	1-216-295-91	SHORT	0	
JR004	1-216-295-91	SHORT	0	
JR005	1-216-295-91	SHORT	0	
JR006	1-216-295-91	SHORT	0	
JR007	1-216-295-91	SHORT	0	
JR008	1-216-295-91	SHORT	0	
JR010	1-216-295-91	SHORT	0	
JR012	1-216-295-91	SHORT	0	
JR014	1-216-295-91	SHORT	0	
JR015	1-216-295-91	SHORT	0	
JR016	1-216-295-91	SHORT	0	
JR107	1-216-295-91	SHORT	0	
JR301	1-216-295-91	SHORT	0	
JR303	1-216-295-91	SHORT	0	
JR500	1-216-295-91	SHORT	0	
JR501	1-216-295-91	SHORT	0	
JR600	1-216-295-91	SHORT	0	
		<COIL>		
L002	1-414-856-11	INDUCTOR	10UH	
L003	1-414-180-11	INDUCTOR	3.3UH	
L005	1-414-233-22	INDUCTOR CHIP	0UH	
L101	1-414-856-11	INDUCTOR	10UH	
L102	1-414-856-11	INDUCTOR	10UH	
L103	1-414-856-11	INDUCTOR	10UH	
L104	1-414-856-11	INDUCTOR	10UH	
L105	1-414-856-11	INDUCTOR	10UH	
L301	1-414-189-31	INDUCTOR	100UH	
L302	1-414-185-41	INDUCTOR	22UH	
L501	1-412-525-31	INDUCTOR	10UH	
L502	1-422-613-11	COIL, AIR CORE		
L503	1-412-525-31	INDUCTOR	10UH	
L504	1-412-525-31	INDUCTOR	10UH	
L505	1-412-525-31	INDUCTOR	10UH	
L506	1-412-525-31	INDUCTOR	10UH	
L507	1-459-111-00	INDUCTOR	10MMH	
L508	1-412-525-31	INDUCTOR	10UH	
L511	1-406-977-21	INDUCTOR	100UH	
L512	1-412-549-31	INDUCTOR	1MMH	
L513	1-412-549-31	INDUCTOR	1MMH	
L515	1-459-104-00	COIL, WITH CORE		
L518	1-408-611-31	INDUCTOR	47UH	
L601	1-412-527-11	INDUCTOR	15UH	
L905	1-414-856-11	INDUCTOR	10UH	
		<PHOTO COUPLER>		
PH600 ⚠	8-749-924-35	PHOTO COUPLER ON3171-R		

REF. NO.	PART NO.	DESCRIPTION		REMARK
		<TRANSISTOR>		
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q003	8-729-027-23	TRANSISTOR DTA114EKA-T146		
Q004	8-729-027-43	TRANSISTOR DTC114EKA-T146		
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		
Q305	8-729-216-22	TRANSISTOR 2SA1162-G		
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q315	1-801-806-11	TRANSISTOR DTC144EK-T146		
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q505	8-729-931-45	TRANSISTOR IRF614		
Q506	8-729-140-96	TRANSISTOR 2SD774-34		
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q511	8-729-016-32	TRANSISTOR 2SC4927-01		
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE		
Q601	8-729-023-22	TRANSISTOR 2SD2114K		
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q603	8-729-027-23	TRANSISTOR DTA114EKA-T146 (FOR TAIWAN)		
Q603	8-729-424-08	TRANSISTOR UN2111 (PHILIPPINES)		
Q604	8-729-200-17	TRANSISTOR 2SA1091-O		
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102		
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW		
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG		
		<RESISTOR>		
R001	1-414-233-22	INDUCTOR CHIP	0UH	
R002	1-216-025-91	RES,CHIP	100 5% 1/10W	
R003	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R004	1-216-025-91	RES,CHIP	100 5% 1/10W	
R005	1-216-025-91	RES,CHIP	100 5% 1/10W	
R006	1-249-436-11	CARBON	39K 5% 1/4W	
R007	1-216-033-91	RES,CHIP	220 5% 1/10W	
R008	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R009	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R010	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R011	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R012	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R013	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R014	1-216-025-91	RES,CHIP	100 5% 1/10W	
R015	1-216-025-91	RES,CHIP	100 5% 1/10W	
R016	1-216-025-91	RES,CHIP	100 5% 1/10W	
R018	1-216-033-00	RES,CHIP	220 5% 1/10W	
R019	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R021	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R022	1-216-025-91	RES,CHIP	100 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R023	1-216-049-91	RES,CHIP	1K	5%	1/10W
R024	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R025	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R026	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R027	1-216-049-91	RES,CHIP	1K	5%	1/10W
R028	1-216-049-91	RES,CHIP	1K	5%	1/10W
R029	1-216-049-91	RES,CHIP	1K	5%	1/10W
R030	1-216-025-91	RES,CHIP	100	5%	1/10W
R031	1-216-049-91	RES,CHIP	1K	5%	1/10W
R032	1-216-025-91	RES,CHIP	100	5%	1/10W
R034	1-216-049-91	RES,CHIP	1K	5%	1/10W
R035	1-216-025-91	RES,CHIP	100	5%	1/10W
R036	1-216-025-91	RES,CHIP	100	5%	1/10W
R037	1-216-083-00	RES,CHIP	27K	5%	1/10W
R038	1-216-049-91	RES,CHIP	1K	5%	1/10W
R040	1-216-025-91	RES,CHIP	100	5%	1/10W
R041	1-216-025-91	RES,CHIP	100	5%	1/10W
R042	1-216-295-91	SHORT	0		
R043	1-216-025-91	RES,CHIP	100	5%	1/10W
R044	1-216-025-91	RES,CHIP	100	5%	1/10W
R045	1-414-233-22	INDUCTOR CHIP	0UH		
R046	1-216-049-91	RES,CHIP	1K	5%	1/10W
R047	1-414-233-22	INDUCTOR CHIP	0UH		
R048	1-216-073-00	RES,CHIP	10K	5%	1/10W
R049	1-216-073-00	RES,CHIP	10K	5%	1/10W
R050	1-216-073-00	RES,CHIP	10K	5%	1/10W
R052	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R053	1-216-049-91	RES,CHIP	1K	5%	1/10W
R054	1-216-049-91	RES,CHIP	1K	5%	1/10W
R055	1-216-073-00	RES,CHIP	10K	5%	1/10W
R056	1-216-073-00	RES,CHIP	10K	5%	1/10W
R061	1-216-295-91	SHORT	0		
R062	1-216-041-00	RES,CHIP	470	5%	1/10W
R063	1-216-041-00	RES,CHIP	470	5%	1/10W
R064	1-216-041-00	RES,CHIP	470	5%	1/10W
R065	1-216-041-00	RES,CHIP	470	5%	1/10W
R066	1-216-049-91	RES,CHIP	1K	5%	1/10W
R103	1-216-025-91	RES,CHIP	100	5%	1/10W
R104	1-216-025-91	RES,CHIP	100	5%	1/10W
R105	1-216-295-91	SHORT	0		
R106	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-216-041-00	RES,CHIP	470	5%	1/10W
R111	1-216-025-91	RES,CHIP	100	5%	1/10W
R112	1-216-025-91	RES,CHIP	100	5%	1/10W
R113	1-216-025-91	RES,CHIP	100	5%	1/10W
R114	1-247-847-31	CARBON	4.7K	5%	1/4W
R115	1-247-847-31	CARBON	4.7K	5%	1/4W
R225	1-216-033-00	RES,CHIP	220	5%	1/10W
R226	1-216-033-00	RES,CHIP	220	5%	1/10W
R227	1-216-033-00	RES,CHIP	220	5%	1/10W
R237	1-216-295-91	SHORT	0		
R301	1-216-113-00	RES,CHIP	470K	5%	1/10W
R302	1-216-295-91	SHORT	0		
R303	1-216-049-91	RES,CHIP	1K	5%	1/10W
R304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R306	1-216-085-00	RES,CHIP	33K	5%	1/10W
R308	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R309	1-216-025-91	RES,CHIP	100	5%	1/10W
R310	1-216-025-91	RES,CHIP	100	5%	1/10W
R311	1-216-017-91	RES,CHIP	47	5%	1/10W
R312	1-216-041-00	RES,CHIP	470	5%	1/10W
R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R314	1-216-043-91	RES,CHIP	560	5%	1/10W
R316	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R317	1-216-077-00	RES,CHIP	15K	5%	1/10W
R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R319	1-216-025-91	RES,CHIP	100	5%	1/10W
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R321	1-216-073-00	RES,CHIP	10K	5%	1/10W
R322	1-216-033-00	RES,CHIP	220	5%	1/10W
R326	1-216-029-00	RES,CHIP	150	5%	1/10W
R327	1-216-033-00	RES,CHIP	220	5%	1/10W
R331	1-216-295-91	SHORT	0		
R332	1-216-033-00	RES,CHIP	220	5%	1/10W
R333	1-216-083-00	RES,CHIP	27K	5%	1/10W
R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R335	1-216-045-00	RES,CHIP	680	5%	1/10W
R338	1-216-037-00	RES,CHIP	330	5%	1/10W
R339	1-216-033-00	RES,CHIP	220	5%	1/10W
R340	1-216-025-91	RES,CHIP	100	5%	1/10W
R345	1-216-081-00	RES,CHIP	22K	5%	1/10W
R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R348	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W
R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R357	1-216-079-00	RES,CHIP	18K	5%	1/10W
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R359	1-216-033-00	RES,CHIP	220	5%	1/10W
R360	1-216-033-00	RES,CHIP	220	5%	1/10W
R361	1-216-073-00	RES,CHIP	10K	5%	1/10W
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R366	1-216-073-00	RES,CHIP	10K	5%	1/10W
R367	1-216-073-00	RES,CHIP	10K	5%	1/10W
R368	1-216-073-00	RES,CHIP	10K	5%	1/10W
R370	1-216-033-00	RES,CHIP	220	5%	1/10W
R373	1-216-025-91	RES,CHIP	100	5%	1/10W
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R377	1-216-121-91	RES,CHIP	1M	5%	1/10W
R378	1-216-031-00	RES,CHIP	180	5%	1/10W
R500	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-216-049-91	RES,CHIP	1K	5%	1/10W
R505	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R506	1-216-081-00	RES,CHIP	22K	5%	1/10W
R507	1-249-389-11	CARBON	4.7	5%	1/4W F
R508	1-216-471-11	METAL OXIDE	27	5%	3W F
R509	1-216-473-11	METAL OXIDE	56	5%	3W F
R510	1-216-449-11	METAL OXIDE	56	5%	2W F

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R511	1-215-908-00	METAL OXIDE	33	5%	3W F
R515	1-215-911-11	METAL OXIDE	100	5%	3W F
R517	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R518	1-247-807-31	CARBON	100	5%	1/4W
R519	1-215-913-11	METAL OXIDE	220	5%	3W F
R520	1-215-445-00	METAL	10K	1%	1/4W
R522	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R523	1-249-411-11	CARBON	330	5%	1/4W
R525	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R526	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R527	1-216-001-00	RES,CHIP	10	5%	1/10W
R528	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R529	1-208-760-11	RES,CHIP	120	0.50%	1/10W
R531	1-247-843-11	CARBON	3.3K	5%	1/4W
R533	1-249-417-11	CARBON	1K	5%	1/4W
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W F
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R537	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R539	1-216-049-91	RES,CHIP	1K	5%	1/10W
R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R542	1-216-097-91	RES,CHIP	100K	5%	1/10W
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W F
R544	1-215-918-00	METAL OXIDE	1.5K	5%	3W F
R545	1-216-077-00	RES,CHIP	15K	5%	1/10W
R546	1-216-077-00	RES,CHIP	15K	5%	1/10W
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W
R548	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R549	1-215-452-00	METAL	20K	1%	1/4W
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W
R551	1-249-413-11	CARBON	470	5%	1/4W
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R553	1-215-453-00	METAL	22K	1%	1/4W
R554	1-215-453-00	METAL	22K	1%	1/4W
R556	1-215-437-00	METAL	4.7K	1%	1/4W
R557	1-216-363-00	METAL OXIDE	0.33	5%	2W F
R558	1-247-843-11	CARBON	3.3K	5%	1/4W
R559	1-249-429-11	CARBON	10K	5%	1/4W
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W
R561	1-216-049-91	RES,CHIP	1K	5%	1/10W
R562	1-249-401-11	CARBON	47	5%	1/4W
R564	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R565	1-216-073-00	RES,CHIP	10K	5%	1/10W
R567	1-216-105-91	RES,CHIP	220K	5%	1/10W
R568	1-249-383-11	CARBON	1.5	5%	1/4W F
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R571	1-215-443-00	METAL	8.2K	1%	1/4W
R573	1-216-089-91	RES,CHIP	47K	5%	1/10W
R575	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R577	1-215-913-11	METAL OXIDE	220	5%	3W F
R578	1-216-369-00	METAL OXIDE	1	5%	2W F
R579	1-216-295-91	SHORT	0		
R580	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R581	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R582	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R584	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R587	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R588	1-215-888-00	METAL OXIDE	220	5%	2W F
R589	1-215-888-00	METAL OXIDE	220	5%	2W F
R590	1-215-465-00	METAL	68K	1%	1/4W
R591	1-260-288-11	CARBON	0.47	5%	1/2W F
R592	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R593	1-260-288-11	CARBON	0.47	5%	1/2W F
R594	1-260-288-11	CARBON	0.47	5%	1/2W F
R596	1-215-918-00	METAL OXIDE	1.5K	5%	3W F
R597	1-247-750-11	CARBON	680	5%	1/2W F
R598	1-249-438-11	CARBON	56K	5%	1/4W
R599	1-249-389-11	CARBON	4.7	5%	1/4W
R600	1-249-438-11	CARBON	56K	5%	1/4W
R601	1-249-420-11	CARBON	1.8K	5%	1/4W F
R602	1-249-389-11	CARBON	4.7	5%	1/4W F
R603	1-215-485-00	METAL	470K	1%	1/4W
R604	1-216-097-91	RES,CHIP	100K	5%	1/10W
R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R608	1-240-205-91	CARBON	22M	5%	1/2W
R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R610	1-216-073-00	RES,CHIP	10K	5%	1/10W
R611	1-216-089-91	RES,CHIP	47K	5%	1/10W
R612	1-216-045-00	RES,CHIP	680	5%	1/10W
R614	1-216-041-00	RES,CHIP	470	5%	1/10W
R615	1-216-369-00	METAL OXIDE	1	5%	2W F
R616	1-260-302-51	CARBON	6.8	5%	1/2W F
R617	1-247-791-91	CARBON	22	5%	1/4W
R619	1-260-128-11	CARBON	270K	5%	1/2W
R621	1-215-859-00	METAL OXIDE	22	5%	1W F
R623	1-216-095-00	RES,CHIP	82K	5%	1/10W
R624	1-216-089-91	RES,CHIP	47K	5%	1/10W
R626	1-216-049-91	RES,CHIP	1K	5%	1/10W
R627	1-240-251-11	CMT,MELF	6.8	5%	10W
R629	1-247-747-11	CARBON	470	5%	1/2W F
R630	1-249-429-11	CARBON	10K	5%	1/4W F
R631	1-216-089-91	RES,CHIP	47K	5%	1/10W
R632	1-220-886-11	FUSIBLE	0.1	10%	1W F
R634 ⚠	1-218-265-91	METAL	8.2M	5%	1W
R635	1-216-492-11	METAL OXIDE	82K	5%	3W F
R636	1-215-924-00	METAL OXIDE	15K	5%	3W F
R637	1-216-492-11	METAL OXIDE	82K	5%	3W F
R639	1-216-361-00	METAL OXIDE	0.22	5%	2W F
R640	1-249-415-11	CARBON	680	5%	1/4W
R641	1-216-361-00	METAL OXIDE	0.22	5%	2W F
R642	1-249-419-11	CARBON	1.5K	5%	1/4W
R643	1-247-843-11	CARBON	3.3K	5%	1/4W
R644	1-249-419-11	CARBON	1.5K	5%	1/4W
R646	1-215-924-00	METAL OXIDE	15K	5%	3W F
R647	1-249-387-11	CARBON	3.3	5%	1/4W
R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R649	1-249-417-11	CARBON	1K	5%	1/4W
R650	1-215-882-00	METAL OXIDE	22	5%	2W F
R652	1-215-900-11	METAL OXIDE	22K	5%	2W F
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R654	1-216-369-00	METAL OXIDE (KV-XF29N93 ONLY)	1	5%	2W F
R656	1-249-417-11	CARBON	1K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A B2 B3 (KV-XF29N90)

REF. NO.	PART NO.	DESCRIPTION			REMARK
R657	1-260-127-11	CARBON	220K	5%	1/2W
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		<RELAY>			
RY600 ⚠	1-755-040-11	RELAY			
RY601 ⚠	1-755-266-11	RELAY, AC POWER			
		<SWITCH>			
S501	1-572-707-11	SWITCH, LEVER			
S502	1-572-707-11	SWITCH, LEVER			
		<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE			
T503 ⚠	1-453-284-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M3I4)			
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR			
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)			
T601	1-431-536-11	TRANSFORMER, LINE FILTER			
T603 ⚠	1-431-976-11	TRANSFORMER, CONVERTER (KV-XF29N90)			
T603 ⚠	1-431-946-11	TRANSFORMER, CONVERTER (KV-XF29N93)			
T604 ⚠	1-431-852-11	TRANSFORMER, CONVERTER (SRT)			
		<THERMISTOR>			
THP600	1-809-539-11	THERMISTOR, POSITIVE			
		<TUNER>			
TU101	8-598-477-10	TUNER, FSS BTF-WG411			
		<CRYSTAL>			
X001	1-781-174-21	VIBRATOR, CERAMIC			
X301	1-781-134-21	VIBRATOR, CRYSTAL			
X302	1-781-132-21	VIBRATOR, CRYSTAL			

****

REF. NO.	PART NO.	DESCRIPTION	REMARK
*	A-1131-412-A	B2 BOARD, MOUNTED (FOR TAIWAN)	
		**********	
*	A-1131-375-A	B2 BOARD, MOUNTED (FOR PHILIPPINES)	
		**********	
		<CONNECTOR>	
CN2302 *	1-766-952-11	CONNECTOR, BOARD TO BOARD 11P	
		<MODULE>	
YCM230	1-466-162-42	BLOCK, COM FILTER (CFB-4)	

****

*	A-1135-995-A	B3 BOARD, COMPLETE (KV-XF29N90)			
		**********			
*	4-363-146-00	HEAT SINK, V.OUT			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1402	1-104-664-11	ELECT	47MF	20%	25V
C1404	1-216-295-91	SHORT	0		
C1405	1-104-664-11	ELECT	47MF	20%	25V
C1410	1-104-664-11	ELECT	47MF	20%	25V
C1411	1-216-295-91	SHORT	0		
C1413	1-126-935-11	ELECT	470MF	20%	16V
C1414	1-164-346-11	CERAMIC CHIP	1MF		16V
C1415	1-104-664-11	ELECT	47MF	20%	25V
C1416	1-164-346-11	CERAMIC CHIP	1MF		16V
C1418	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1422	1-164-346-11	CERAMIC CHIP	1MF		16V
C1423	1-164-346-11	CERAMIC CHIP	1MF		16V
C1425	1-164-346-11	CERAMIC CHIP	1MF		16V
C1426	1-164-346-11	CERAMIC CHIP	1MF		16V
C1428	1-104-665-11	ELECT	100MF	20%	25V
C1429	1-126-966-11	ELECT	33MF	20%	50V
C1431	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1433	1-126-933-11	ELECT	100MF	20%	16V
C1434	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1435	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1436	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1440	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1441	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1443	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1444	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1445	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1446	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1447	1-126-964-11	ELECT	10MF	20%	50V
C1448	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1449	1-126-933-11	ELECT	100MF	20%	16V

B3 (KV-XF29N90)

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1459	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1460	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1461	1-164-346-11	CERAMIC CHIP	1MF		16V
C1462	1-164-346-11	CERAMIC CHIP	1MF		16V
C3201	1-126-964-11	ELECT	10MF	20%	50V
C3202	1-136-169-00	FILM	0.22MF	5%	50V
C3203	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3206	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3207	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3208	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3209	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3210	1-126-964-11	ELECT	10MF	20%	50V
C3211	1-126-964-11	ELECT	10MF	20%	50V
C3212	1-126-964-11	ELECT	10MF	20%	50V
C3213	1-104-664-11	ELECT	47MF	20%	25V
C3214	1-104-664-11	ELECT	47MF	20%	25V
C3215	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3216	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3217	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3218	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3219	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3220	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3221	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3222	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3223	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3224	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3225	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3226	1-126-964-11	ELECT	10MF	20%	50V
C3227	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3228	1-107-698-11	ELECT	10MF	20%	25V
C3229	1-107-698-11	ELECT	10MF	20%	25V
C3238	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3239	1-136-169-00	FILM	0.22MF	5%	50V
C3240	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3243	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C3244	1-164-346-11	CERAMIC CHIP	1MF		16V
C3245	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3246	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3247	1-126-963-11	ELECT	4.7MF	20%	50V
C3248	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3249	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3250	1-164-346-11	CERAMIC CHIP	1MF		16V
C3251	1-126-964-11	ELECT	10MF	20%	50V
C3252	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3253	1-126-933-11	ELECT	100MF	20%	16V
C3254	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3255	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3256	1-126-963-11	ELECT	4.7MF	20%	50V
C3257	1-164-346-11	CERAMIC CHIP	1MF		16V
C3258	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C3259	1-104-664-11	ELECT	47MF	20%	16V
C3260	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3262	1-104-664-11	ELECT	47MF	20%	16V
C3264	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3265	1-126-964-11	ELECT	10MF	20%	50V
C3266	1-126-964-11	ELECT	10MF	20%	50V
C3268	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3269	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3270	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3271	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3272	1-126-965-11	ELECT	22MF	20%	50V
C3273	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3274	1-126-964-11	ELECT	10MF	20%	50V
C3276	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3277	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3278	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3279	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3280	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C3281	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3282	1-126-964-11	ELECT	10MF	20%	50V
C3283	1-126-964-11	ELECT	10MF	20%	50V
C3284	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3285	1-126-964-11	ELECT	10MF	20%	50V
C3286	1-126-964-11	ELECT	10MF	20%	50V
C3287	1-126-964-11	ELECT	10MF	20%	50V
C3288	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3289	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C3290	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3291	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6200	1-216-295-91	SHORT	0		
C6202	1-128-550-11	ELECT	2200MF	20%	50V
C6203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6204	1-128-550-11	ELECT	2200MF	20%	50V
C6205	1-130-495-00	MYLAR	0.1MF	5%	50V
C6206	1-128-550-11	ELECT	2200MF	20%	50V
C6209	1-130-495-00	MYLAR	0.1MF	5%	50V
C6210	1-126-924-11	ELECT	330MF	20%	10V
C6211	1-126-924-11	ELECT	330MF	20%	10V
C6212	1-104-664-11	ELECT	47MF	20%	25V
C6213	1-136-169-00	FILM	0.22MF	5%	50V
C6217	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6220	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6222	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6223	1-126-960-11	ELECT	1MF	20%	50V
C6241	1-136-169-00	FILM	0.22MF	5%	50V
C6249	1-216-295-91	SHORT	0		

<CONNECTOR>

CN1400*	1-564-512-11	PLUG, CONNECTOR 9P
CN1401*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN1403*	1-564-506-11	PLUG, CONNECTOR 3P
CN1405*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P
CN1407*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P
CN6200*	1-564-507-11	PLUG, CONNECTOR 4P
CN6204*	1-564-509-11	PLUG, CONNECTOR 6P
CN6206*	1-564-510-11	PLUG, CONNECTOR 7P

<DIODE>

D1401	8-719-069-60	DIODE UDZSTE-179.1B
D1402	8-719-069-60	DIODE UDZSTE-179.1B
D1403	8-719-069-60	DIODE UDZSTE-179.1B
D1404	8-719-069-60	DIODE UDZSTE-179.1B
D1405	8-719-069-60	DIODE UDZSTE-179.1B

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REF. NO.	PART NO.	DESCRIPTION		REMARK
D1406	8-719-069-60	DIODE UDZSTE-179.1B		
D1407	8-719-069-60	DIODE UDZSTE-179.1B		
D1408	8-719-069-60	DIODE UDZSTE-179.1B		
D1409	8-719-069-60	DIODE UDZSTE-179.1B		
D1410	8-719-069-60	DIODE UDZSTE-179.1B		
D1411	8-719-069-60	DIODE UDZSTE-179.1B		
D1412	8-719-069-60	DIODE UDZSTE-179.1B		
D1415	8-719-069-60	DIODE UDZSTE-179.1B		
D1416	8-719-069-60	DIODE UDZSTE-179.1B		
D3201	8-719-988-61	DIODE 1SS355TE-17		
D3203	8-719-988-61	DIODE 1SS355TE-17		
D6211	8-719-404-50	DIODE MA111-TX		
D6212	8-719-404-50	DIODE MA111-TX		
		<IC>		
IC1401	8-752-068-46	IC CXA1855S		
IC1404	8-759-701-59	IC NJM78M09FA		
IC3200	8-759-100-96	IC UPC4558G2		
IC3201	8-759-553-44	IC NJM2187L		
IC3202	8-759-100-96	IC UPC4558G2		
IC3203	8-759-711-10	IC NJU4066BM		
IC3204	8-759-100-96	IC UPC4558G2		
IC3205	8-752-057-18	IC CXA1315P		
IC3206	8-759-496-02	IC NJM2150D		
IC3207	8-759-273-12	IC TDA7315D013TR		
IC6200	8-759-168-24	IC TA8200AH		
		<JACK>		
J1401	1-784-646-11	TERMINAL, S		
J1402	1-778-388-11	JACK BLOCK, PIN 9P		
		<CHIP CONDUCTOR>		
JR1405	1-216-295-91	SHORT	0	
JR1406	1-216-295-91	SHORT	0	
JR1407	1-216-295-91	SHORT	0	
JR1408	1-216-295-91	SHORT	0	
JR3200	1-216-295-91	SHORT	0	
JR3201	1-216-295-91	SHORT	0	
JR3202	1-216-295-91	SHORT	0	
JR3203	1-216-295-91	SHORT	0	
JR3204	1-216-295-91	SHORT	0	
JR3207	1-216-295-91	SHORT	0	
JR3208	1-216-295-91	SHORT	0	
JR3209	1-216-295-91	SHORT	0	
JR6200	1-216-295-91	SHORT	0	
JR6202	1-216-295-91	SHORT	0	
JR6203	1-216-295-91	SHORT	0	
JR6204	1-216-295-91	SHORT	0	
		<COIL>		
L1404	1-412-537-31	INDUCTOR	100UH	
L3202	1-414-856-11	INDUCTOR	10UH	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<TRANSISTOR>			
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1403	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1404	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3201	8-729-224-62	TRANSISTOR 2SK246-GR			
Q3202	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3203	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3204	8-729-224-62	TRANSISTOR 2SK246-GR			
Q6201	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6203	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6204	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6208	1-801-806-11	TRANSISTOR DTC144EKA-T146			
		<RESISTOR>			
R1403	1-216-033-00	RES,CHIP	220	5%	1/10W
R1404	1-216-295-91	SHORT	0		
R1406	1-216-017-91	RES,CHIP	47	5%	1/10W
R1407	1-216-033-00	RES,CHIP	220	5%	1/10W
R1408	1-216-031-00	RES,CHIP	180	5%	1/10W
R1409	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1410	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1411	1-216-295-91	SHORT	0		
R1412	1-216-295-91	SHORT	0		
R1414	1-216-025-91	RES,CHIP	100	5%	1/10W
R1417	1-216-025-91	RES,CHIP	100	5%	1/10W
R1418	1-216-025-91	RES,CHIP	100	5%	1/10W
R1426	1-216-025-91	RES,CHIP	100	5%	1/10W
R1428	1-216-025-91	RES,CHIP	100	5%	1/10W
R1429	1-216-295-91	SHORT	0		
R1430	1-216-025-91	RES,CHIP	100	5%	1/10W
R1431	1-216-025-91	RES,CHIP	100	5%	1/10W
R1433	1-216-025-91	RES,CHIP	100	5%	1/10W
R1435	1-216-022-00	RES,CHIP	75	5%	1/10W
R1436	1-216-025-91	RES,CHIP	100	5%	1/10W
R1437	1-216-022-00	RES,CHIP	75	5%	1/10W
R1438	1-216-025-91	RES,CHIP	100	5%	1/10W
R1441	1-216-025-91	RES,CHIP	100	5%	1/10W
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1443	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1445	1-216-025-91	RES,CHIP	100	5%	1/10W
R1446	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1447	1-216-025-91	RES,CHIP	100	5%	1/10W
R1449	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1450	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1451	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1452	1-216-295-91	SHORT	0		
R1453	1-216-025-91	RES,CHIP	100	5%	1/10W
R1455	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1456	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1457	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1458	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1459	1-216-025-91	RES,CHIP	100	5%	1/10W
R1460	1-216-033-00	RES,CHIP	220	5%	1/10W
R1461	1-216-025-91	RES,CHIP	100	5%	1/10W

B3 (KV-XF29N90)

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1463	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1464	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1465	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1466	1-216-033-00	RES,CHIP	220	5%	1/10W
R1467	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1468	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1469	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1470	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1471	1-216-022-00	RES,CHIP	75	5%	1/10W
R1472	1-216-033-00	RES,CHIP	220	5%	1/10W
R1473	1-216-033-00	RES,CHIP	220	5%	1/10W
R1477	1-216-047-91	RES,CHIP	820	5%	1/10W
R1478	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1479	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1480	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1481	1-216-022-00	RES,CHIP	75	5%	1/10W
R1482	1-216-025-91	RES,CHIP	100	5%	1/10W
R1483	1-216-025-91	RES,CHIP	100	5%	1/10W
R1484	1-216-025-91	RES,CHIP	100	5%	1/10W
R1485	1-216-025-91	RES,CHIP	100	5%	1/10W
R1486	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1490	1-216-025-91	RES,CHIP	100	5%	1/10W
R1491	1-216-025-91	RES,CHIP	100	5%	1/10W
R1492	1-216-021-00	RES,CHIP	68	5%	1/10W
R1493	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1496	1-216-041-00	RES,CHIP	470	5%	1/10W
R1497	1-216-041-00	RES,CHIP	470	5%	1/10W
R1498	1-216-025-91	RES,CHIP	100	5%	1/10W
R1499	1-216-025-91	RES,CHIP	100	5%	1/10W
R1500	1-216-025-91	RES,CHIP	100	5%	1/10W
R3200	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3201	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3202	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3203	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3204	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3206	1-216-039-00	RES,CHIP	390	5%	1/10W
R3207	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3208	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3210	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3211	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3213	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3214	1-216-295-91	SHORT	0		
R3215	1-216-295-91	SHORT	0		
R3216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3218	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3219	1-216-077-00	RES,CHIP	15K	5%	1/10W
R3220	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3222	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3223	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3224	1-216-115-00	RES,CHIP	560K	5%	1/10W
R3225	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3226	1-216-073-00	RES,CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3227	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R3228	1-216-085-00	RES,CHIP	33K	5%	1/10W
R3229	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3230	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R3231	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3232	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3233	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3234	1-216-039-00	RES,CHIP	390	5%	1/10W
R3235	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3236	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3237	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3238	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3239	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3240	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3241	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3242	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3245	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3246	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3247	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3248	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3249	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3250	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3251	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3252	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3253	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3254	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3255	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3256	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3257	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3258	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3259	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3260	1-216-025-91	RES,CHIP	100	5%	1/10W
R3261	1-216-025-91	RES,CHIP	100	5%	1/10W
R3262	1-216-115-00	RES,CHIP	560K	5%	1/10W
R3263	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3264	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3266	1-216-295-91	SHORT	0		
R3267	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3268	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3269	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3270	1-216-295-91	SHORT	0		
R3271	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3272	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3273	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3274	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3277	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3278	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3279	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3280	1-216-033-00	RES,CHIP	220	5%	1/10W
R3281	1-216-033-00	RES,CHIP	220	5%	1/10W
R3282	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3283	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3285	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3287	1-216-073-00	RES,CHIP	10K	5%	1/10W

B3 (KV-XF29N90) B3 (KV-XF29N93)

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3288	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3289	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3290	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3291	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3294	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3295	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3296	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3297	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3298	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3299	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6201	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6202	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6203	1-216-295-91	SHORT	0		
R6209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6219	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6245	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6246	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6254	1-216-017-91	RES,CHIP	47	5%	1/10W
R6255	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6258	1-216-017-91	RES,CHIP	47	5%	1/10W
R6259	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6278	1-216-295-91	SHORT	0		

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*	A-1136-015-A	B3 BOARD, COMPLETE (KV-XF29N93(TAIWAN))	
		**********	
*	A-1136-972-A	B3 BOARD, COMPLETE (KV-XF29N93(PHILIPPINES))	
		**********	
*	4-363-146-00	HEAT SINK, V.OUT (KV-XF29N93 (TAIWAN)ONLY)	
	4-382-854-11	SCREW (M3X10), P, SW (+)	

<CAPACITOR>

C1402	1-104-664-11	ELECT	47MF	20%	25V
C1404	1-216-295-91	SHORT	0		
C1405	1-104-664-11	ELECT	47MF	20%	25V
C1410	1-104-664-11	ELECT	47MF	20%	25V
C1411	1-216-295-91	SHORT	0		
C1413	1-126-935-11	ELECT	470MF	20%	16V
C1414	1-164-346-11	CERAMIC CHIP	1MF		16V
C1415	1-104-664-11	ELECT	47MF	20%	25V
C1416	1-164-346-11	CERAMIC CHIP	1MF		16V
C1418	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1422	1-164-346-11	CERAMIC CHIP	1MF		16V
C1423	1-164-346-11	CERAMIC CHIP	1MF		16V
C1425	1-164-346-11	CERAMIC CHIP	1MF		16V
C1426	1-164-346-11	CERAMIC CHIP	1MF		16V
C1428	1-104-665-11	ELECT	100MF	20%	25V
C1429	1-126-966-11	ELECT	33MF	20%	50V
C1431	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1433	1-126-933-11	ELECT	100MF	20%	16V
C1434	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1435	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1436	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1440	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1441	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1443	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1444	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1445	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1446	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1447	1-126-964-11	ELECT	10MF	20%	50V
C1448	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1449	1-126-933-11	ELECT	100MF	20%	16V
C1459	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1460	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1461	1-164-346-11	CERAMIC CHIP	1MF		16V
C1462	1-164-346-11	CERAMIC CHIP	1MF		16V
C3201	1-126-964-11	ELECT	10MF	20%	50V
C3203	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3206	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3207	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3208	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3209	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3210	1-126-964-11	ELECT	10MF	20%	50V
C3211	1-126-964-11	ELECT	10MF	20%	50V
C3212	1-126-964-11	ELECT	10MF	20%	50V
C3213	1-104-665-11	ELECT (FOR TAIWAN)	100MF	20%	25V
C3213	1-104-664-11	ELECT (FOR PHILIPPINES)	47MF	20%	25V
C3214	1-104-665-11	ELECT (FOR TAIWAN)	100MF	20%	25V
C3214	1-104-664-11	ELECT (FOR PHILIPPINES)	47MF	20%	25V
C3215	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3216	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3217	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3218	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3219	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3220	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3221	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3222	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3223	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3224	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3225	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3226	1-126-964-11	ELECT	10MF	20%	50V
C3227	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3228	1-107-698-11	ELECT	10MF	20%	25V
C3229	1-107-698-11	ELECT	10MF	20%	25V
C3240	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3249	1-216-295-91	SHORT	0		
C3254	1-216-295-91	SHORT	0		
C3259	1-104-664-11	ELECT	47MF	20%	16V
C3260	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3262	1-126-933-11	ELECT (FOR TAIWAN)	100MF	20%	16V
C3262	1-104-664-11	ELECT (FOR PHILIPPINES)	47MF	20%	25V
C3264	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

B3 (KV-XF29N93)

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3265	1-126-964-11	ELECT	10MF	20%	50V
C3266	1-126-964-11	ELECT	10MF	20%	50V
C3268	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3269	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3270	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3271	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3272	1-126-965-11	ELECT	22MF	20%	50V
C3273	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3274	1-126-964-11	ELECT	10MF	20%	50V
C3276	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3277	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3278	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3279	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C3280	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C3281	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3282	1-126-964-11	ELECT	10MF	20%	50V
C3283	1-126-964-11	ELECT	10MF	20%	50V
C3284	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3285	1-126-964-11	ELECT	10MF	20%	50V
C3286	1-126-964-11	ELECT	10MF	20%	50V
C3287	1-126-964-11	ELECT	10MF	20%	50V
C3288	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3289	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C3290	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3291	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6200	1-216-295-91	SHORT	0		
C6201	1-126-964-11	ELECT	10MF	20%	50V
C6202	1-128-550-11	ELECT	2200MF	20%	50V
C6203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6204	1-128-550-11	ELECT	2200MF	20%	50V
C6205	1-130-495-00	MYLAR	0.1MF	5%	50V
C6206	1-128-550-11	ELECT	2200MF	20%	50V
C6207	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6208	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6209	1-130-495-00	MYLAR	0.1MF	5%	50V
C6210	1-104-661-91	ELECT	330MF	20%	16V
C6211	1-104-661-91	ELECT	330MF	20%	16V
C6212	1-126-967-11	ELECT	47MF	20%	50V
C6213	1-136-161-00	FILM	0.047MF	5%	50V
C6215	1-126-933-11	ELECT	100MF	20%	16V
C6216	1-126-960-11	ELECT	1MF	20%	50V
C6217	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6218	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6219	1-126-961-11	ELECT	2.2MF	20%	50V
C6220	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6221	1-126-959-11	ELECT	0.47MF	20%	50V
C6222	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6223	1-126-960-11	ELECT	1MF	20%	50V
C6225	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6226	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6227	1-128-550-11	ELECT	2200MF	20%	50V
C6228	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6229	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6230	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6231	1-128-550-11	ELECT	2200MF	20%	50V
C6232	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C6233	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C6234	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C6235	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6236	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C6237	1-136-177-00	FILM	1MF	5%	50V
C6238	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C6239	1-127-682-51	ELECT MELF	2200MF	20%	25V
C6240	1-130-495-00	MYLAR	0.1MF	5%	50V
C6241	1-136-161-00	FILM	0.047MF	5%	50V
C6244	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C6245	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C6249	1-216-295-91	SHORT	0		
C6251	1-126-965-11	ELECT	22MF	20%	50V
C6252	1-126-965-11	ELECT	22MF	20%	50V
C6253	1-126-959-11	ELECT	0.47MF	20%	50V

<CONNECTOR>

CN1400*	1-564-512-11	PLUG, CONNECTOR 9P
CN1401*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN1403*	1-564-506-11	PLUG, CONNECTOR 3P
CN1405*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P
CN1407*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P
CN6200*	1-564-507-11	PLUG, CONNECTOR 4P
CN6202*	1-564-507-11	PLUG, CONNECTOR 4P
CN6204*	1-564-509-11	PLUG, CONNECTOR 6P
CN6205*	1-564-507-11	PLUG, CONNECTOR 4P
CN6206*	1-564-510-11	PLUG, CONNECTOR 7P

<DIODE>

D1401	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1401	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1402	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1402	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1403	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1403	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1404	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1404	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1405	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1405	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1406	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1406	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1407	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1407	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1408	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1408	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1409	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1409	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1410	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1410	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1411	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1411	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1412	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1412	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1415	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1415	8-719-158-35	DIODE RD9.15B (TAIWAN)
D1416	8-719-069-60	DIODE UDZSTE-179.1B (PHILIPPINES)
D1416	8-719-158-35	DIODE RD9.15B (TAIWAN)

B3 (KV-XF29N93)

REF. NO.	PART NO.	DESCRIPTION		REMARK
D6200	8-719-109-86	DIODE RD5.1ESB3		
D6205	8-719-988-61	DIODE 1SS355TE-17		
D6211	8-719-404-50	DIODE MA111-TX		
D6212	8-719-404-50	DIODE MA111-TX		
		<FERRITE BEAD>		
FB6201	1-410-397-21	FERRITE	1.1UH	
FB6202	1-410-397-21	FERRITE	1.1UH	
		<IC>		
IC1401	8-752-068-46	IC CXA1855S		
IC1404	8-759-701-59	IC NJM78M09FA		
IC3200	8-759-100-96	IC UPC4558G2		
IC3201	8-759-553-44	IC NJM2187L		
IC3202	8-759-100-96	IC UPC4558G2		
IC3203	8-759-711-10	IC NJU4066BM		
IC3205	8-752-057-18	IC CXA1315P		
IC3206	8-759-496-02	IC NJM2150D		
IC3207	8-759-273-12	IC TDA7315D013TR		
IC6200	8-759-168-24	IC TA8200AH		
IC6201	8-759-553-45	IC TDA7481		
		<JACK>		
J1401	1-784-646-11	TERMINAL, S		
J1402	1-778-388-11	JACK BLOCK, PIN 9P		
		<CHIP CONDUCTOR>		
JR1405	1-216-295-91	SHORT	0	
JR1406	1-216-295-91	SHORT	0	
JR1407	1-216-295-91	SHORT	0	
JR1408	1-216-295-91	SHORT	0	
JR3200	1-216-295-91	SHORT	0	
JR3201	1-216-295-91	SHORT	0	
JR3202	1-216-295-91	SHORT	0	
JR3203	1-216-295-91	SHORT	0	
JR3204	1-216-295-91	SHORT	0	
JR3207	1-216-295-91	SHORT	0	
JR3208	1-216-295-91	SHORT	0	
JR3209	1-216-295-91	SHORT	0	
JR6200	1-216-295-91	SHORT	0	
JR6201	1-216-295-91	SHORT	0	
JR6202	1-216-295-91	SHORT	0	
JR6203	1-216-295-91	SHORT	0	
JR6204	1-216-295-91	SHORT	0	
		<COIL>		
L1404	1-412-537-31	INDUCTOR	100UH	
L3202	1-414-856-11	INDUCTOR	10UH	
L6202	1-416-857-11	INDUCTOR	65UH	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<IC LINK>			
PS6200	1-532-686-21	LINK, IC 2.7A/150V			
PS6201	1-532-686-21	LINK, IC 2.7A/150V			
		<TRANSISTOR>			
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1403	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1404	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6200	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6201	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6202	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6203	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6204	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q6205	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6206	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6207	8-729-224-62	TRANSISTOR 2SK246-GR			
Q6208	1-801-806-11	TRANSISTOR DTC144EKA-T146			
		<RESISTOR>			
R1403	1-216-033-00	RES,CHIP	220	5%	1/10W
R1404	1-216-295-91	SHORT	0		
R1406	1-216-017-91	RES,CHIP	47	5%	1/10W
R1407	1-216-033-00	RES,CHIP	220	5%	1/10W
R1408	1-216-031-00	RES,CHIP	180	5%	1/10W
R1409	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1410	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1411	1-216-295-91	SHORT	0		
R1412	1-216-295-91	SHORT	0		
R1414	1-216-025-91	RES,CHIP	100	5%	1/10W
R1417	1-216-025-91	RES,CHIP	100	5%	1/10W
R1418	1-216-025-91	RES,CHIP	100	5%	1/10W
R1426	1-216-025-91	RES,CHIP	100	5%	1/10W
R1428	1-216-025-91	RES,CHIP	100	5%	1/10W
R1429	1-216-295-91	SHORT	0		
R1430	1-216-025-91	RES,CHIP	100	5%	1/10W
R1431	1-216-025-91	RES,CHIP	100	5%	1/10W
R1433	1-216-025-91	RES,CHIP	100	5%	1/10W
R1435	1-216-022-00	RES,CHIP	75	5%	1/10W
R1436	1-216-025-91	RES,CHIP	100	5%	1/10W
R1437	1-216-022-00	RES,CHIP	75	5%	1/10W
R1438	1-216-025-91	RES,CHIP	100	5%	1/10W
R1441	1-216-025-91	RES,CHIP	100	5%	1/10W
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1443	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1445	1-216-025-91	RES,CHIP	100	5%	1/10W
R1446	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1447	1-216-025-91	RES,CHIP	100	5%	1/10W
R1449	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1450	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1451	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1452	1-216-295-91	SHORT	0		
R1453	1-216-025-91	RES,CHIP	100	5%	1/10W
R1455	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1456	1-216-113-00	RES,CHIP	470K	5%	1/10W

B3 (KV-XF29N93)

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1457	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1458	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1459	1-216-025-91	RES,CHIP	100	5%	1/10W
R1460	1-216-033-00	RES,CHIP	220	5%	1/10W
R1461	1-216-025-91	RES,CHIP	100	5%	1/10W
R1463	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1464	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1465	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1466	1-216-033-00	RES,CHIP	220	5%	1/10W
R1467	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1468	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1469	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1470	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1471	1-216-022-00	RES,CHIP	75	5%	1/10W
R1472	1-216-033-00	RES,CHIP	220	5%	1/10W
R1473	1-216-033-00	RES,CHIP	220	5%	1/10W
R1477	1-216-047-91	RES,CHIP	820	5%	1/10W
R1478	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1479	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1480	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1481	1-216-022-00	RES,CHIP	75	5%	1/10W
R1482	1-216-025-91	RES,CHIP	100	5%	1/10W
R1483	1-216-025-91	RES,CHIP	100	5%	1/10W
R1484	1-216-025-91	RES,CHIP	100	5%	1/10W
R1485	1-216-025-91	RES,CHIP	100	5%	1/10W
R1486	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1490	1-216-025-91	RES,CHIP	100	5%	1/10W
R1491	1-216-025-91	RES,CHIP	100	5%	1/10W
R1492	1-216-021-00	RES,CHIP	68	5%	1/10W
R1493	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1496	1-216-041-00	RES,CHIP	470	5%	1/10W
R1497	1-216-041-00	RES,CHIP	470	5%	1/10W
R1498	1-216-025-91	RES,CHIP	100	5%	1/10W
R1499	1-216-025-91	RES,CHIP	100	5%	1/10W
R1500	1-216-025-91	RES,CHIP	100	5%	1/10W
R3208	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3210	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3211	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3213	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3214	1-216-295-91	SHORT	0		
R3215	1-216-295-91	SHORT	0		
R3216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3218	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3219	1-216-077-00	RES,CHIP	15K	5%	1/10W
R3224	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3225	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3226	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3227	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R3228	1-216-085-00	RES,CHIP	33K	5%	1/10W
R3229	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3230	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R3231	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3232	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3238	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3239	1-216-073-00	RES,CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3240	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3241	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3242	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3247	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3248	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3249	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3250	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3260	1-216-025-91	RES,CHIP	100	5%	1/10W
R3261	1-216-025-91	RES,CHIP	100	5%	1/10W
R3262	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3263	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3264	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3266	1-216-295-91	SHORT	0		
R3267	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3268	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3269	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3270	1-216-295-91	SHORT	0		
R3271	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3272	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3273	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3274	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3275	1-216-295-91	SHORT	0		
R3276	1-216-295-91	SHORT	0		
R3277	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3278	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3279	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3280	1-216-033-00	RES,CHIP	220	5%	1/10W
R3281	1-216-033-00	RES,CHIP	220	5%	1/10W
R3282	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3283	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3285	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3287	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3288	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3289	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3290	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3291	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3294	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3295	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3296	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3297	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3298	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3299	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6200	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6201	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6202	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6203	1-216-295-91	SHORT	0		
R6205	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6207	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6219	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6235	1-216-029-00	RES,CHIP	150	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B3 (KV-XF29N93) C

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6236	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6237	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6239	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6240	1-249-429-11	CARBON	10K	5%	1/4W
R6241	1-215-915-11	METAL OXIDE	470	5%	3W F
R6242	1-215-915-11	METAL OXIDE	470	5%	3W F
R6243	1-249-392-11	CARBON	8.2	5%	1/4W F
R6244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6245	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6246	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6248	1-216-041-00	RES,CHIP	470	5%	1/10W
R6249	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6250	1-216-295-91	SHORT	0		
R6251	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6252	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6253	1-216-041-00	RES,CHIP	470	5%	1/10W
R6254	1-216-017-91	RES,CHIP	47	5%	1/10W
R6255	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6256	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6257	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6258	1-216-017-91	RES,CHIP	47	5%	1/10W
R6259	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6260	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6262	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6263	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6266	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6268	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6278	1-216-295-91	SHORT	0		

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*	A-1331-897-A	C BOARD, MOUNTED (FOR TAIWAN)			
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*	A-1331-872-A	C BOARD, MOUNTED (FOR PHILIPPINES)			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C700	1-110-389-11	FILM MELF	0.1MF	5%	250V
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V
C704	1-107-652-11	ELECT	10MF	20%	250V
C707	1-137-399-11	MYLAR	0.1MF	5%	50V
C708	1-102-228-00	CERAMIC	470PF	10%	500V
C709	1-102-228-00	CERAMIC	470PF	10%	500V
C710	1-102-960-00	CERAMIC	24PF	5%	50V
C711	1-102-852-91	CERAMIC	47PF	5%	50V
C712	1-102-525-11	CERAMIC	68PF	5%	50V
C713	1-102-228-00	CERAMIC	470PF	10%	500V
C716	1-104-665-11	ELECT	100MF	20%	25V
C717	1-107-651-11	ELECT	4.7MF	20%	250V
C726	1-104-664-11	ELECT	47MF	20%	25V
C1800	1-126-964-11	ELECT	10MF	20%	50V
C1803	1-126-964-11	ELECT	10MF	20%	50V
C1804	1-126-964-11	ELECT	10MF	20%	50V
C1809	1-126-942-61	ELECT	1000MF	20%	25V
		<CONNECTOR>			
CN700	1-695-915-11	TAB (CONTACT)			
CN701	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
CN702	1-695-915-11	TAB (CONTACT)			
CN703 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN704	1-695-915-11	TAB (CONTACT)			
CN705 *	1-564-518-11	PLUG, CONNECTOR 3P (FOR TAIWAN ONLY)			
CN706	1-695-915-11	TAB (CONTACT)			
CN1801*	1-564-509-11	PLUG, CONNECTOR 6P			
CN1802*	1-564-506-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D700	8-719-911-19	DIODE 1SS119-25			
D701	8-719-911-19	DIODE 1SS119-25			
D702	8-719-911-19	DIODE 1SS119-25			
D703	8-719-911-19	DIODE 1SS119-25			
D704	8-719-911-19	DIODE 1SS119-25			
D705	8-719-051-85	DIODE HSS83TD			
D706	8-719-051-85	DIODE HSS83TD			
D707	8-719-051-85	DIODE HSS83TD			
D708	8-719-911-19	DIODE 1SS119-25			
D709	8-719-911-19	DIODE 1SS119-25			
D710	8-719-911-19	DIODE 1SS119-25			
D711	8-719-110-23	DIODE RD11ESB3			
D714	8-719-051-85	DIODE HSS83TD			
D715	8-719-051-85	DIODE HSS83TD			
D716	8-719-051-85	DIODE HSS83TD			
D720	8-719-911-19	DIODE 1SS119-25			
D721	8-719-911-19	DIODE 1SS119-25			
D722	8-719-911-19	DIODE 1SS119-25			
D1803	8-719-911-19	DIODE 1SS119-25			
D1804	8-719-911-19	DIODE 1SS119-25			
D1808	8-719-908-03	DIODE GP08D			
		<IC>			
IC701	8-759-561-28	IC STV5112			
IC1800	8-759-822-38	IC LA6510			
		<JACK>			
J701	⚠ 1-540-071-22	SOCKET, CRT			
		<COIL>			
L701	1-410-667-31	INDUCTOR	22UH		
L705	1-408-609-41	INDUCTOR	33UH		
L706	1-408-609-41	INDUCTOR	33UH		
L707	1-408-609-41	INDUCTOR	33UH		

C D1

REF. NO.	PART NO.	DESCRIPTION				
		<TRANSISTOR>				
Q1800	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1802	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R700	1-249-393-11	CARBON	10	5%	1/4W	F
R701	1-249-496-11	CARBON	100K	5%	1/2W	
R702	1-215-469-00	METAL	100K	1%	1/4W	
R703	1-215-414-00	METAL	510	1%	1/4W	
R704	1-215-414-00	METAL	510	1%	1/4W	
R705	1-249-417-11	CARBON	1K	5%	1/4W	
R706	1-249-417-11	CARBON	1K	5%	1/4W	
R707	1-215-414-00	METAL	510	1%	1/4W	
R708	1-249-417-11	CARBON	1K	5%	1/4W	
R709	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R711	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R712	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R713	1-215-481-00	METAL	330K	1%	1/4W	
R714	1-249-425-11	CARBON	4.7K	5%	1/4W	
R715	1-249-413-11	CARBON	470	5%	1/4W	
R716	1-249-413-11	CARBON	470	5%	1/4W	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	
R718	1-247-752-11	CARBON	1K	5%	1/2W	
R719	1-249-425-11	CARBON	4.7K	5%	1/4W	
R722	1-247-752-11	CARBON	1K	5%	1/2W	
R723	1-249-413-11	CARBON	470	5%	1/4W	
R724	1-247-752-11	CARBON	1K	5%	1/2W	
R730	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R734	1-247-739-11	CARBON	100	5%	1/2W	
R744	1-215-415-00	METAL	560	1%	1/4W	
R745	1-215-410-00	METAL	360	1%	1/4W	
R1800	1-249-417-11	CARBON	1K	5%	1/4W	
R1801	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1802	1-249-387-11	CARBON	3.3	5%	1/4W	F
R1803	1-249-387-11	CARBON	3.3	5%	1/4W	F
R1805	1-249-429-11	CARBON	10K	5%	1/4W	
R1806	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1808	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1809	1-249-435-11	CARBON	33K	5%	1/4W	
R1810	1-249-435-11	CARBON	33K	5%	1/4W	
R1811	1-249-435-11	CARBON	33K	5%	1/4W	
R1812	1-249-435-11	CARBON	33K	5%	1/4W	
R1821	1-249-435-11	CARBON	33K	5%	1/4W	
R1822	1-249-435-11	CARBON	33K	5%	1/4W	
R1823	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1824	1-249-435-11	CARBON	33K	5%	1/4W	
R1825	1-247-843-11	CARBON	3.3K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M				
RV1801	1-223-241-11	RES, ADJ, CARBON 47K				

****

REF. NO.	PART NO.	DESCRIPTION			
*	A-1343-659-A	D1 BOARD, MOUNTED (FOR TAIWAN)			
		**********			
*	A-1343-586-A	D1 BOARD, MOUNTED (FOR PHILIPPINES)			
		**********			
		<CAPACITOR>			
C2801	1-130-479-00	MYLAR	0.0047MF	5%	50V
C2803	1-136-357-11	FILM	680PF	5%	50V
C2805	1-104-664-11	ELECT	47MF	20%	25V
C2806	1-136-559-11	MYLAR	0.0047MF	10%	400V
C2809	1-126-964-11	ELECT	10MF	20%	50V
C2810	1-162-318-11	CERAMIC	0.001MF	10%	500V
C2811	1-107-938-11	ELECT	0.47MF	20%	160V
C2813	1-107-636-11	ELECT	10MF	20%	160V
C2814	1-126-964-11	ELECT	10MF	20%	50V
C2817	1-102-244-00	CERAMIC	220PF	10%	500V
C2818	1-136-347-11	FILM	0.0047MF	5%	630V
C2819	1-104-664-11	ELECT	47MF	20%	25V
C2820	1-107-714-11	ELECT	10MF	20%	16V
C2822	1-106-375-12	MYLAR	0.022MF	10%	250V
C2824	1-104-664-11	ELECT	47MF	20%	25V
C2825	1-136-759-11	FILM	0.039MF	5%	200V
C2826	1-137-194-81	FILM	0.47MF	5%	50V
C2828	1-107-714-11	ELECT	10MF	20%	16V
C2829	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C2830	1-130-479-00	MYLAR	0.0047MF	5%	50V
C2831	1-107-714-11	ELECT	10MF	20%	16V
C2832	1-126-960-11	ELECT	1MF	20%	50V
C2833	1-137-366-11	FILM	0.0022MF	5%	50V
C2834	1-106-375-12	MYLAR	0.022MF	10%	250V
C2835	1-216-295-91	SHORT	0		
C2837	1-102-129-00	CERAMIC	0.01MF	10%	50V
C2840	1-106-383-00	MYLAR	0.047MF	5%	100V
C2841	1-137-194-81	FILM	0.47MF	5%	50V
		<CONNECTOR>			
CN2821*	1-564-506-11	PLUG, CONNECTOR 3P			
CN2822*	1-564-510-11	PLUG, CONNECTOR 7P			
CN2823	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D2801	8-719-988-61	DIODE 1SS355TE-17			
D2803	8-719-063-73	DIODE D1NL20U-TR			
D2804	8-719-063-73	DIODE D1NL20U-TR			
D2806	8-719-302-43	DIODE EL1Z			
D2811	8-719-988-61	DIODE 1SS355TE-17			
D2813	8-719-988-61	DIODE 1SS355TE-17			
		<IC>			
IC2801	8-759-700-07	IC NJM2903M			
IC2803	8-759-701-59	IC NJM78M09FA			
IC2805	8-759-998-98	IC LM358D			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

D1 **F**

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CHIP CONDUCTOR>			
JR2803	1-216-295-91	SHORT	0		
JR2804	1-216-295-91	SHORT	0		
JR2815	1-216-295-91	SHORT	0		
		<COIL>			
L2801	1-406-677-11	INDUCTOR	10MMH		
L2802	1-406-989-21	INDUCTOR	10MMH		
L2803	1-410-093-11	INDUCTOR	33MMH		
L2806	1-406-678-11	INDUCTOR	15MMH		
		<TRANSISTOR>			
Q2802	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2806	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q2807	8-729-043-95	TRANSISTOR 2SC3840(3)			
Q2811	8-729-931-45	TRANSISTOR IRF614			
Q2813	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q2821	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q2822	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q2823	8-729-017-06	TRANSISTOR 2SC4793			
		<RESISTOR>			
R2801	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2803	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2804	1-216-041-00	RES,CHIP	470	5%	1/10W
R2806	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2809	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2812	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2813	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2816	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2820	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2821	1-249-412-11	CARBON	390	5%	1/4W F
R2824	1-249-393-11	CARBON	10	5%	1/4W F
R2825	1-216-037-00	RES,CHIP	330	5%	1/10W
R2827	1-216-041-00	RES,CHIP	470	5%	1/10W
R2830	1-215-876-00	METAL OXIDE	15K	5%	1W F
R2831	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R2833	1-215-893-11	METAL OXIDE	1.5K	5%	2W F
R2834	1-216-463-00	METAL OXIDE	12K	5%	2W F
R2837	1-216-041-00	RES,CHIP	470	5%	1/10W
R2838	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R2839	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2840	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2843	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2844	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2846	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2847	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2850	1-215-914-11	METAL OXIDE	330	5%	3W F
R2853	1-215-914-11	METAL OXIDE	330	5%	3W F
R2857	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2858	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2859	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2860	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2861	1-216-107-00	RES,CHIP	270K	5%	1/10W
R2862	1-216-107-00	RES,CHIP	270K	5%	1/10W
R2866	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2867	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2869	1-216-121-91	RES,CHIP	1M	5%	1/10W
R2871	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2872	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2874	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2877	1-215-905-11	METAL OXIDE	10	5%	3W F
		<TRANSFORMER>			
T2801	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS			

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*	A-1241-377-A	F BOARD, MOUNTED (FOR TAIWAN)			
		**********			
*	A-1241-346-A	F BOARD, MOUNTED (FOR PHILIPPINES)			
		**********			
	1-533-223-11	HOLDER, FUSE			
		<CAPACITOR>			
	C654 1-117-703-11	CERAMIC	0.0047MF	99%	250V
	C4601 ⚠ 1-104-708-51	FILM	0.47MF	20%	250V
	C4602 ⚠ 1-109-835-51	FILM	0.68MF	20%	250V
		<CONNECTOR>			
	CN4601* 1-580-843-11	PIN, CONNECTOR (POWER)			
	CN4602* 1-580-843-11	PIN, CONNECTOR (POWER)			
	CN4603 1-695-915-11	TAB (CONTACT)			
		<FUSE>			
	F4601 ⚠ 1-532-299-11	FUSE, TIME-LAG 5A/250V			
		<RESISTOR>			
	R4601 ⚠ 1-202-719-91	SOLID	1M	10%	1/2W
		<TRANSFORMER>			
	T4601 1-431-536-11	TRANSFORMER, LINE FILTER			
	T4602 1-431-182-11	TRANSFORMER, LINE FILTER			
		<VARISTOR>			
	VDR461⚠1-801-268-51	VARISTOR TNR14V471K660			
	VDR461* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

H3

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1372-622-A	H3 BOARD, MOUNTED (KV-XF29N90)			
		**********			
*	A-1372-668-A	H3 BOARD, MOUNTED (KV-XF29N93(TAIWAN))			
		**********			
*	A-1372-573-A	H3 BOARD, MOUNTED (KV-XF29N93(PHILIPPINES))			
		**********			
*	4-055-304-01	HOLDER, LED			
		<CAPACITOR>			
C3900	1-136-153-00	FILM	0.01MF	5%	50V
C3902	1-136-153-00	FILM	0.01MF	5%	50V
C3904	1-104-664-11	ELECT	47MF	20%	25V
C3905	1-126-965-11	ELECT	22MF	20%	50V
C3906	1-126-965-11	ELECT	22MF	20%	50V
C3907	1-136-175-00	FILM (KV-XF29N93 ONLY)	0.68MF	5%	50V
C3910	1-104-664-11	ELECT	47MF	20%	16V
C3911	1-104-664-11	ELECT	47MF	20%	16V
C3912	1-102-114-00	CERAMIC	470PF	10%	50V
C3913	1-126-960-11	ELECT	1MF	20%	50V
C3914	1-126-965-11	ELECT	22MF	20%	50V
		<CONNECTOR>			
CN3601 *	1-580-844-11	PIN, CONNECTOR (POWER)			
CN3602 *	1-695-292-11	PIN, CONNECTOR (POWER)			
CN3603	1-695-915-11	TAB (CONTACT)			
CN3901 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN3902 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN3903 *	1-564-507-11	PLUG, CONNECTOR 4P (KV-XF29N93 ONLY)			
CN3904 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN3905 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN3906 *	1-564-506-11	PLUG, CONNECTOR 3P (KV-XF29N93 ONLY)			
		<DIODE>			
D3900	8-719-121-26	DIODE RD9.1ESL2			
D3901	8-719-121-26	DIODE RD9.1ESL2			
D3902	8-719-121-26	DIODE RD9.1ESL2			
D3905	8-719-121-26	DIODE RD9.1ESL2			
D3906	8-719-045-19	DIODE SPB-26MVWF			
D3907	8-719-121-26	DIODE RD9.1ESL2			
D3908	8-719-121-26	DIODE RD9.1ESL2			
		<IC>			
IC3901	8-742-041-12	HYB IC SBX1981-11			
		<JACK>			
J3901	1-750-264-11	JACK			
J3902	1-784-646-11	TERMINAL, S			
J3903	1-770-329-11	JACK, PIN 3P			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L3901	1-408-603-31	INDUCTOR	10UH		
L3902	1-408-603-31	INDUCTOR	10UH		
L3903	1-406-976-11	INDUCTOR	68UH (KV-XF29N93 ONLY)		
		<TRANSISTOR>			
Q3901	8-729-030-02	TRANSISTOR DTC144ESA			
Q3902	8-729-030-02	TRANSISTOR DTC144ESA			
		<RESISTOR>			
R3900	1-249-411-11	CARBON	330	5%	1/4W
R3901	1-249-411-11	CARBON	330	5%	1/4W
R3902	1-247-804-11	CARBON	75	5%	1/4W
R3904	1-249-429-11	CARBON	10K	5%	1/4W
R3905	1-249-429-11	CARBON	10K	5%	1/4W
R3907	1-249-426-11	CARBON	5.6K	5%	1/4W
R3908	1-249-413-11	CARBON	470	5%	1/4W
R3909	1-249-417-11	CARBON	1K	5%	1/4W
R3910	1-249-420-11	CARBON	1.8K	5%	1/4W
R3911	1-249-411-11	CARBON	330	5%	1/4W
R3912	1-247-843-11	CARBON	3.3K	5%	1/4W
R3913	1-249-429-11	CARBON	10K	5%	1/4W
R3914	1-249-411-11	CARBON	330	5%	1/4W
R3915	1-249-429-11	CARBON	10K	5%	1/4W
R3916	1-249-401-11	CARBON	47	5%	1/4W
R3917	1-247-804-11	CARBON	75	5%	1/4W
R3918	1-247-815-91	CARBON	220	5%	1/4W
R3919	1-247-815-91	CARBON	220	5%	1/4W
R3920	1-247-807-31	CARBON	100	5%	1/4W
R3921	1-247-807-31	CARBON	100	5%	1/4W
R3922	1-249-421-11	CARBON	2.2K	5%	1/4W
R3923	1-247-815-91	CARBON	220	5%	1/4W
R3924	1-247-804-11	CARBON	75	5%	1/4W
		<SWITCH>			
S3601 ⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			
S3902	1-692-431-21	SWITCH, TACTILE			
S3903	1-692-431-21	SWITCH, TACTILE			
S3904	1-692-431-21	SWITCH, TACTILE			
S3905	1-692-431-21	SWITCH, TACTILE			
S3906	1-692-431-21	SWITCH, TACTILE			
S3907	1-692-431-21	SWITCH, TACTILE			
S3908	1-692-431-21	SWITCH, TACTILE			

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J2 (KV-XF29N93 ONLY) VM1

REF. NO.	PART NO.	DESCRIPTION				REMARK
*	A-1388-254-A	J2 BOARD, MOUNTED (KV-XF29N93(TAIWAN))				
		**********				
*	A-1388-228-A	J2 BOARD, MOUNTED (KV-XF29N93(PHILIPPINES))				
		**********				
		<CONNECTOR>				
CN3451 *	1-564-518-11	PLUG, CONNECTOR 3P				
		<DIODE>				
D3453	8-719-110-72	DIODE RD30ESB2				
D3454	8-719-110-72	DIODE RD30ESB2				
		<JACK>				
J3451	1-694-467-11	TERMINAL, PUSH (2P)				

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*	A-1342-480-A	VM1 BOARD, MOUNTED (FOR TAIWAN)				
		**********				
*	A-1342-442-A	VM1 BOARD, MOUNTED (FOR PHILIPPINES)				
		**********				
*	4-363-146-71	HEAT SINK, V.OUT (FOR TAIWAN ONLY)				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C5902	1-104-661-91	ELECT	330MF	20%	16V	
C5903	1-161-830-00	CERAMIC	0.0047MF		500V	
C5905	1-126-925-11	ELECT	470MF	20%	10V	
C5906	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5907	1-107-638-11	ELECT	33MF	20%	160V	
C5908	1-106-383-00	MYLAR	0.047MF	10%	200V	
C5909	1-126-933-11	ELECT	100MF	20%	16V	
C5910	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5911	1-107-949-11	ELECT	2.2MF	20%	160V	
C5912	1-104-999-11	MYLAR	0.1MF	10%	200V	
C5913	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5914	1-126-933-11	ELECT	100MF	20%	16V	
C5916	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5917	1-126-925-11	ELECT	470MF	20%	10V	
C5918	1-115-341-51	CERAMIC	120PF	10%	500V	
C5920	1-126-964-11	ELECT	10MF	20%	50V	
C5921	1-102-852-91	CERAMIC	47PF	5%	50V	
		<CONNECTOR>				
CN2801 *	1-564-506-11	PLUG, CONNECTOR 3P				
CN5901 *	1-564-510-11	PLUG, CONNECTOR 7P				
CN5904 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P				

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<DIODE>				
D5901	8-719-911-19	DIODE 1SS119-25				
D5902	8-719-110-88	DIODE RD39ESB2				
D5903	8-719-911-19	DIODE 1SS119-25				
D5904	8-719-110-88	DIODE RD39ESB2				
D5905	8-719-911-19	DIODE 1SS119-25				
D5906	1-249-406-11	CARBON	120	5%	1/4W	
D5907	1-249-406-11	CARBON	120	5%	1/4W	
		<COIL>				
L5901	1-414-187-11	INDUCTOR	47UH			
L5902	1-414-856-11	INDUCTOR	10UH			
		<TRANSISTOR>				
Q5901	8-729-119-78	TRANSISTOR 2SC2785-HFE (FOR TAIWAN)				
Q5901	8-729-230-45	TRANSISTOR 2SC2458-YGR (FOR PHILIPPINES)				
Q5902	8-729-017-05	TRANSISTOR 2SA1837				
Q5903	8-729-119-78	TRANSISTOR 2SC2785-HFE (FOR TAIWAN)				
Q5903	8-729-230-45	TRANSISTOR 2SC2458-YGR (FOR PHILIPPINES)				
Q5904	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q5905	8-729-119-78	TRANSISTOR 2SC2785-HFE (FOR TAIWAN)				
Q5905	8-729-230-45	TRANSISTOR 2SC2458-YGR (FOR PHILIPPINES)				
Q5906	8-729-017-06	TRANSISTOR 2SC4793				
Q5908	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q5909	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R5901	1-247-815-91	CARBON	220	5%	1/4W	
R5902	1-249-414-11	CARBON	560	5%	1/4W	F
R5903	1-247-734-11	CARBON	39	5%	1/2W	F
R5904	1-249-411-11	CARBON	330	5%	1/4W	
R5905	1-249-417-11	CARBON	1K	5%	1/4W	
R5906	1-249-417-11	CARBON	1K	5%	1/4W	
R5907	1-249-417-11	CARBON	1K	5%	1/4W	
R5908	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5909	1-247-815-91	CARBON	220	5%	1/4W	
R5910	1-249-403-11	CARBON	68	5%	1/4W	
R5911	1-249-439-11	CARBON	68K	5%	1/4W	
R5912	1-249-437-11	CARBON	47K	5%	1/4W	
R5914	1-249-403-11	CARBON	68	5%	1/4W	
R5915	1-249-429-11	CARBON	10K	5%	1/4W	
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W	
R5917	1-249-416-11	CARBON	820	5%	1/4W	
R5918	1-249-429-11	CARBON	10K	5%	1/4W	
R5919	1-249-417-11	CARBON	1K	5%	1/4W	F
R5920	1-249-439-11	CARBON	68K	5%	1/4W	
R5921	1-216-476-11	METAL OXIDE	180	5%	3W	F
R5922	1-249-414-11	CARBON	560	5%	1/4W	
R5923	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5925	1-249-400-11	CARBON	39	5%	1/4W	F
R5929	1-215-880-00	METAL OXIDE	10	5%	2W	F
R5930	1-249-413-11	CARBON	470	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

VM1

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5931	1-249-413-11	CARBON	470	5%	1/4W
R5932	1-249-413-11	CARBON	470	5%	1/4W
R5933	1-249-413-11	CARBON	470	5%	1/4W
R5934	1-249-430-11	CARBON	12K	5%	1/4W
R5935	1-249-429-11	CARBON	10K	5%	1/4W

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MISCELLANEOUS
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⚠	1-416-495-11	COIL, DEMAGNETIC (FOR PHILIPPINES)
⚠	1-419-164-11	COIL, DEGAUSSING (TAIWAN)
	1-452-094-00	CIRCULAR DISC MAGNET B
	1-452-032-00	MAGNET,DISC
	1-452-896-11	COIL, NA ROTATION (RT200)
	1-529-172-11	SPEAKER, LOUD (10CM) (KV-XF29N93 ONLY)
	1-529-179-11	SPEAKER (8CM)
	1-529-190-11	SPEAKER (5CM)
	1-573-657-21	PLUG, F-PIN
⚠	1-575-023-11	CORD, POWER (WITH CONNECTOR) 6A/250V
	8-451-494-21	DEFLECTION YOKE (Y29RSA-M2)(FOR TAIWAN)
	8-451-494-31	DEFLECTION YOKE (Y29RSA-M2) (FOR PHILIPPINES)
	8-453-011-11	NA299-M
⚠	8-735-041-05	PICTURE TUBE (M68LNH010X)(FOR TAIWAN)
⚠	8-735-056-05	PICTURE TUBE (M68LNH070X) (FOR PHILIPPINES)

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-864-172-71	MANUAL, INSTRUCTION	
*	4-029-168-01	BAG, PROTECTION	
*	4-054-319-01	TRAY (FOR PHILIPPINES)	
*	4-069-009-01	TRAY (FOR TAIWAN)	
*	4-066-926-02	CUSHION (UPPER)(ASSY) (FOR PHILIPPINES)	
*	4-069-010-01	CUSHION (UPPER)(ASSY) (FOR TAIWAN)	
*	4-066-927-02	CUSHION (LOWER)(ASSY) (FOR PHILIPPINES)	
*	4-069-011-01	CUSHION (LOWER)(ASSY) (FOR TAIWAN)	
	4-070-564-01	BAG, POLYETHYLENE (FOR PHILIPPINES ONLY)	
*	4-066-924-02	INDIVIDUAL CARTON (FOR PHILIPPINES)	
*	4-070-384-01	INDIVIDUAL CARTON (FOR TAIWAN)	
*	4-384-101-21	BAG, PROTECTION (FOR TAIWAN ONLY)	
	4-392-003-01	BAND, HOLD	
	4-392-004-11	CLIP	
*	4-065-210-01	JOINT (FOR PHILIPPINES)	
*	4-396-077-01	JOINT (FOR TAIWAN)	

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REMOTE COMMANDER
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	1-418-460-11	REMOTE COMMANDER (RM-914)
	9-933-895-01	BATTERY COVER, REMOTE COMMANDER

Sony Corporation
SONY TV Industries (M) Sdn. Bhd.
TV Business of General Area

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